

GROUPS
ATC
THE FIRST INDUSTRIAL EQUIPMENT
POWER SUPPLY



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AC-DC Enclosed

 The Premium Series

 The Best Cost Performance

Without PFC

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LRS Series

35~600W Low profile Single Output Enclosed Type



LRS-200 LRS-250 LRS-100 LRS-75 LRS-35/30
LRS-200N2 LRS-150F LRS-100N2



LRS-250-600
LRS-150-600N2



Link open

Features

- Withstand 300 VAC surge input for 5 sec
- 1U low profile (30~41mm)
- Withstand 5G vibration test
- High operating temperature up to 70°C
- Protections: Short Circuit/Overload/Over Voltage/Over Temp (LRS-150~600)
- Cooling by free air convection (LRS-35~700)
- Provide 240% peak power (LRS-100N2/200N2/350N2/600N2)
- Forced air cooling by built-in DC fan (350~600W)
- Operating altitude up to 5000 meters
- Long MTBF, 1500k~3300k hrs all series
- LED indicator for power on
- 3 years warranty

Models

CB

Model No.	LRS-35	LRS-30	LRS-75	LRS-100	LRS-100N2	LRS-150F	LRS-150
Vin	85~264VAC	85~264VAC	85~264VAC	85~264VAC	85~264VAC	85~264VAC	115/230VAC by switch
	5V, 0~7A	5.3V, 0~10A	5V, 0~14A	3.3V, 0~20A	12V, 0~8.5A	5V, 0~22A	12V, 0~12.5A
	12V, 0~3A	5V, 0~10A	12V, 0~6A	5V, 0~18A	24V, 0~4.5A	12V, 0~12.5A	15V, 0~10A
	15V, 0~2.4A	12V, 0~4.2A	15V, 0~5A	12V, 0~8.5A	36V, 0~2.3A	15V, 0~10A	24V, 0~6.5A
Vout (Volt)	24V, 0~1.5A	15V, 0~3.4A	24V, 0~3.2A	15V, 0~7A	48V, 0~2.3A	24V, 0~6.5A	30V, 0~4.3A
	36V, 0~1A	24V, 0~2.2A	36V, 0~2.1A	24V, 0~4.5A		36V, 0~4.3A	48V, 0~3.3A
	48V, 0~0.6A	36V, 0~1.45A	48V, 0~1.6A	36V, 0~2.8A		48V, 0~3.3A	
		48V, 0~1.1A		48V, 0~2.1A			
Dimension (mm)	99x82x30		99x97x30	129x97x30		159x97x30	

Model No.	LRS-200	LRS-200N2	LRS-350	LRS-350N2	LRS-450	LRS-600	LRS-600N2
Vin	115/230VAC by switch						
	3.3V, 0~40A	12V, 0~17A	3.3V, 0~60A	12V, 0~20A	5V, 0~75A	5V, 0~100A	12V, 0~50A
	4.2V, 0~40A	24V, 0~8.8A	4.2V, 0~60A	24V, 0~14.6A	12V, 0~37.5A	12V, 0~50A	24V, 0~25A
	5V, 0~40A	36V, 0~5.9A	5V, 0~60A	36V, 0~9.7A	15V, 0~30A	15V, 0~40A	36V, 0~16.6A
Vout (Volt)	12V, 0~1.7A	48V, 0~4.4A	12V, 0~20A	48V, 0~7.3A	24V, 0~18.8A	24V, 0~25A	48V, 0~12.5A
	15V, 0~14A		15V, 0~21.2A		36V, 0~12.5A	27V, 0~22.2A	
	24V, 0~8.8A		24V, 0~14.6A		48V, 0~4.4A	36V, 0~16.6A	
	36V, 0~5.9A		36V, 0~9.7A			48V, 0~12.5A	
	48V, 0~4.4A		48V, 0~7.3A				
Dimension (mm)	215x115x30		215x115x30		225x124x35		225x124x41

450~1500W Medium/High Power Enclosed Type

SE Series



Features

- Protection: Short Circuit/Overload/Over Voltage/Over Temp.
- Forced air cooling by built-in DC fan
- Built-in remote sense function
- With DC_OK signal output, built-in remote O/U-CFF control (SE-1000/1500)
- LED indicator for power on
- 2 years warranty

Models



Model No.	SE-450	SE-600	SE-1000	SE-1500
Vin	115/230VAC by switch			180~264VAC
Vout/Aout	3.3V, 0~7.5A	5V, 0~100A	5V, 0~150A	5V, 0~300A
	5V, 0~7.5A	12V, 0~50A	9V, 0~100A	12V, 0~125A
	12V, 0~17.5A	15V, 0~40A	12V, 0~83.3A	15V, 0~100A
	15V, 0~30A	24V, 0~25A	15V, 0~66.7A	24V, 0~62.5A
	24V, 0~18.8A	27V, 0~22.2A	24V, 0~41.7A	27V, 0~55.6A
	30V, 0~12.5A	30V, 0~16.6A	48V, 0~20.8A	48V, 0~31.3A
	48V, 0~9.4A	48V, 0~12.5A		
Dimension (mm)	215x124x50	247x127x63.5	278x127x63.5	278x177.8x63.5

* Highly recommended to use LRS-450/600 for SE-450/600 replacement

G3 Series

15~150W Miniwatt Multi-Output Enclosed Type



RS-150
RD10/DQ-325

RS-100
RD10/DQ-40

RS-75
RD10/DQ-60

RS-50
RD10/DQ-80

RS-35
RD-35

RS-25
RD-25

RS-15
RD-15



Features

- Universal full range input: 85~264 VAC
- AD using 105°C long life electrolytic capacitors
- Protection: Short Circuit / Overload / Over Voltage / Over Temp. (RS-15)
- Withstand 300VAC surge input for 5 sec.
- Withstand 5G vibration
- High operating temperature up to 70°C
- Miniature size
- Cooling by free air convection
- LED indicator for power on
- 3 years warranty

Models

Single Output



Model No.	RS-15	RS-25	RS-35	RS-50	RS-75	RS-100	RS-150
Vout/Iout:	3.3V, 0~3A	3.3V, 0~6A	3.3V, 0~7A	3.3V, 0~10A	3.3V, 0~15A	3.3V, 0~20A	3.3V, 0~30A
	5V, 0~3A	5V, 0~5A	5V, 0~7A	5V, 0~10A	5V, 0~12A	5V, 0~16A	5V, 0~25A
	12V, 0~1.3A	12V, 0~2.1A	12V, 0~3A	12V, 0~4.2A	12V, 0~6A	12V, 0~8.5A	12V, 0~12.5A
	15V, 0~1A	15V, 0~1.7A	15V, 0~2.4A	15V, 0~3.4A	15V, 0~5A	15V, 0~7.0A	15V, 0~10A
	24V, 0~0.625A	24V, 0~1.1A	24V, 0~1.5A	24V, 0~2.3A	24V, 0~3.2A	24V, 0~4.5A	24V, 0~6.5A
	48V, 0~0.313A	48V, 0~0.57A	48V, 0~0.8A	48V, 0~1.1A	48V, 0~1.6A	48V, 0~2.3A	48V, 0~3.3A
Dimension (mm)	62.5x51x28	78x51x28	90x62x36	90x67x36	129x98x38	159x97x38	199x98x38

Dual Output

Model No.	Output Number	RD-35A	RD-35R	RD-351Z	RD-50A	RD-50R
Vout/Iout:	CH1	5V, 0~4A	5V, 0~4A	13.5V, 0~2A	5V, 0~6A	5V, 0~6A
	CH2	12V, 0~1A	24V, 0~1.3A	13.5V, 0~1.5A	12V, 0~3A	24V, 0~2A
Dimension (mm)		99x82x36			99x87x36	

Model No.	Output Number	RD-65A	RD-65R	RD-65A	RD-65R	RD-125A	RD-125R
Vout/Iout:	CH1	5V, 0~8A	5V, 0~8A	5V, 0~10A	5V, 0~10A	5V, 0~15A	5V, 0~10A
	CH2	12V, 0~4A	24V, 0~3A	12V, 0~5A	24V, 0~2.5A	12V, 0~10A	24V, 0~5A
Dimension (mm)		129x98x38		159x97x38		199x98x38	

Note: Output Halation model available RD-50/R3/R5 series. (Please refer to the specification for details.)

15-150W Miniatur Multi-Output Enclosed Type

G3 Series



RD-125
RQ-125

RD-85
RQ-85

RD-65
RQ-65

RD-50
RQ-50



Models

Dual Output



Model No.	Output Number	RD-125-1224	RD-125-2412	RD-125-1248	RD-125-4812
Vout / Iout	CH1	12V, 0~7A	24V, 0~5A	12V, 0~7A	48V, 0~2.5A
	CH2	24V, 0~5A	12V, 0~7A	48V, 0~2.5A	12V, 0~7A
Dimension (mm)	109x58x38				

Model No.	Output Number	RD-125-2448	RD-125-4824	RD-125-1205	RD-125-2405
Vout / Iout	CH1	24V, 0~4A	48V, 0~2.5A	12V, 0~10.5A	24V, 0~5.3A
	CH2	48V, 0~2.5A	24V, 0~4A	5V, 0~3A	5V, 0~3A
Dimension (mm)	109x58x38				

Note: Output isolation model available: RD-125 series. (Please refer to the specification for details)

Quad Output

Model No.	Output Number	RQ-50B	RQ-50C	RQ-100D	RQ-65B	RQ-65C	RQ-65D
Vout / Iout	CH1	5V, 0~8A	5V, 0~6A	5V, 0~6A	5V, 0~8A	5V, 0~8A	5V, 0~8A
	CH2	12V, 0~1.5A	15V, 0~1.5A	12V, 0~1.5A	12V, 0~3A	15V, 0~3A	12V, 0~3A
	CH3	5V, 0~1A	5V, 0~1A	24V, 0~1A	5V, 0~1A	5V, 0~1A	24V, 0~1.5A
	CH4	12V, 0~1A	15V, 0~1A	12V, 0~1A	12V, 0~1A	15V, 0~1A	12V, 0~1A
Dimension (mm)	99x87x38				129x88x38		

Model No.	Output Number	RQ-85B	RQ-85C	RQ-85D	RQ-125B	RQ-125C	RQ-125D
Vout / Iout	CH1	5V, 0~10A	5V, 0~10A	5V, 0~10A	5V, 0~12A	5V, 0~12A	5V, 0~12A
	CH2	12V, 0~4A	15V, 0~4A	12V, 0~4A	12V, 0~4.5A	15V, 0~4A	12V, 0~4A
	CH3	5V, 0~1A	5V, 0~1A	24V, 0~1.5A	5V, 0~1A	5V, 0~1A	24V, 0~2.5A
	CH4	12V, 0~1A	15V, 0~1A	12V, 0~1A	12V, 0~1A	15V, 0~1A	12V, 0~1A
Dimension (mm)	159x97x38				198x98x38		

Note: Triple output models: RQ-50/55/85/125 have no -5V or -12V (Please refer to the specification for details)

RSP Series

75~500W Low/Medium Power Enclosed Type
(with PFC function)



RSP-30W RSP-75W RSP-100W RSP-150W



RSP-200W RSP-120W

Features

- Universal full range input: 90~264 VAC
- Active PFC function
- 1U low profile
- Cooling by free air convection (RSP-75~300)
- Forced air cooling by built-in DC fan (RSP-120/500)
- Built-in constant current limiting circuit (RSP-75/100/150)
- Remote ON/OFF control (RSP-75/100/150/500)
- Remote sense/DC OK signal (RSP-500)
- LED indicator for power on
- Protection: Short Circuit/Overload/Over Voltage/Over Temp.
- 3 years warranty

Models



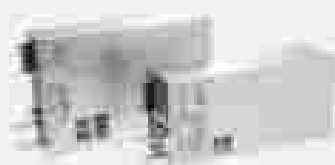
Model No.	RSP-75	RSP-100	RSP-150	RSP-200	RSP-120	RSP-500
V _{out} /I _{out}	3.3V, 0~1.5A	3.3V, 0~20A	3.3V, 0~30A	2.5V, 0~40A	2.5V, 0~50A	3.3V, 0~90A
	5V, 0~1.5A	5V, 0~20A	5V, 0~30A	3.3V, 0~40A	3.3V, 0~50A	4V, 0~90A
	7.5V, 0~1.0A	7.5V, 0~13.5A	7.5V, 0~20A	4V, 0~40A	4V, 0~50A	5V, 0~90A
	12V, 0~0.8A	12V, 0~8.5A	12V, 0~12.5A	5V, 0~40A	5V, 0~60A	12V, 0~41.7A
	13.5V, 0~0.6A	13.5V, 0~7.5A	13.5V, 0~11.2A	7.5V, 0~26.7A	7.5V, 0~40A	15V, 0~33.4A
	15V, 0~0.5A	15V, 0~6.7A	15V, 0~10A	12V, 0~16.7A	12V, 0~26.7A	24V, 0~21A
	24V, 0~0.3A	24V, 0~4.2A	24V, 0~6.3A	13.5V, 0~14.0A	13.5V, 0~23.6A	27V, 0~18.6A
	27V, 0~0.3A	27V, 0~3.8A	27V, 0~5.6A	15V, 0~13.8A	15V, 0~21.6A	48V, 0~10.5A
	48V, 0~0.16A	48V, 0~2.1A	48V, 0~3.2A	24V, 0~8.4A	24V, 0~13.4A	
				27V, 0~7.5A	27V, 0~11.9A	
Dimension (mm)	159x97x30	179x91x30	199x99x30	215x115x30	215x115x30	270x122x40.5

* RSP-120, 500 with conformal coating is suitable for LED lighting sign applications. MOQ required.

750-3200W High Power Enclosed Type (With PFC function)

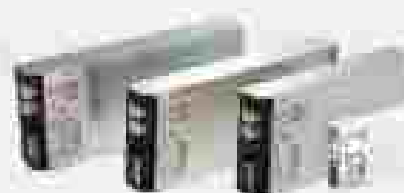
RSP Series

AC-DC Enclosed RSP Series



RSP-2400/3000

RSP-1500



RSP-2000

RSP-1000

RSP-750

RSP-1600

■ Features

- 1U low profile(41mm); RSP-750/1000/1600/2000
- Active PFC function
- Forced air cooling by built-in DC fan
- High power density up to 25W/in³ (RSP-1600)
- Output voltage programmable: Widest up to 40~125V
- Constant current level ICC programmable (RSP-750/1600 only)
- Built-in current sharing up to 3 units (RSP-2400/3000), 4 units (RSP-1000/1600/2000) or 6 units (RSP-1600)
- Built-in remote sense & remote ON/OFF control
- Built-in auxiliary power, DC OK signal
- OTP alarm signal output (RSP-1000/2000)
- Optional conformal coating
- Protection: Short Circuit/Overload/Over Voltage/Over Temp.
- 5 years warranty

■ Models



Model No.	RSP-750	RSP-1000	RSP-1500	RSP-1600
V _{in}	90~264VAC	90~264VAC	90~264VAC	90~264VAC
V _{out} / I _{out}	5V, 0~100A	12V, 0~60A	3V, 0~240A	12V, 0~125A
	12V, 0~62.5A	15V, 0~50A	12V, 0~125A	24V, 0~62A
	15V, 0~50A	24V, 0~40A	15V, 0~100A	27V, 0~58A
	24V, 0~31.3A	27V, 0~37A	24V, 0~63A	30V, 0~44.5A
	27V, 0~27.8A	48V, 0~21A	27V, 0~56A	48V, 0~33.5A
	48V, 0~15.7A		48V, 0~32A	
Dimension (mm)	250x127x41	295x127x41	278x127x83.5	300x85x41

Model No.	RSP-2000	RSP-2400	RSP-3000
V _{in}	90~264VAC	100~264VAC	180~264VAC
V _{out} / I _{out}	12V, 0~100A	12V, 0~166.7A	12V, 0~200A
	24V, 0~80A	24V, 0~100A	24V, 0~125A
	48V, 0~42A	48V, 0~50A	48V, 0~62.5A
Dimension (mm)	295x127x41	278x177.8x63.5	278x177.8x63.5

NSP Series

1600-3200W High Power Enclosed Type
(With PFC function)



Features

- Universal full range input: 90-264 VAC
- Active PFC function
- Forced air cooling by built-in DC fan
- Output voltage programmable. Widest up to 40-125%
- Built-in intelligent fan speed control
- Protections: Short Circuit/Overload/Over Voltage/Over Temp.
- Built-in remote ON-OFF control/remote sense/auxiliary power
- DC OK signal/OTP alarm signal
- 5 years warranty

Models



Model No.	NSP-1600	NSP-3200
Vout / Iout	12V, 0-125A	24V, 0-133A
	24V, 0-67A	48V, 0-67A
	36V, 0-44.5A	
	48V, 0-33.5A	
Dimension (mm)	300x85x41	325.8x107x41

Parallel Function Enclosed Type (with PFC function)

PSP/ PSPA Series

AC-DC Enclosed Type PSP/PSPA series



PSP-600



PSPA-1000



Features

- Built-in active PFC function
- Protection: Short Circuit/Overload/Over Voltage/Over Temp.
- Forced air cooling by built-in DC fan
- With DC OK signal output
- Current sharing up to 2400W (PSP-600), 4000W (PSPA-1000)
- Built-in remote sense/remote ON-OFF control
- 3 years warranty (PSP-600)
- 5 years warranty (PSPA-1000)

Models



Model No.	PSP-600	PSPA-1000
Input	86~264VAC	90~264VAC
Output/Volt	5V, 0~80A	12V, 0~80A
	12V, 0~50A	15V, 0~64A
	13.5V, 0~44.5A	24V, 0~42A
	15V, 0~40A	48V, 0~21A
	24V, 0~25A	
	27V, 0~22.2A	
	48V, 0~12.5A	
Dimension (mm)	170x120x93	170x120x93

HRP Series

75-1000W High Reliability Enclosed Type (with PFC function)



HRPG-1000, HRPG-600, HRPG-450, HRPG-300, HRPG-200, HRPG-150, HRP-100, HRP-75



Features

- Withstand 300 VAC surge input for 5 sec.
- Built-in active PFC function
- Protection: Short Circuit/Overload/Over Voltage/Over Temp.(Optional for HRP-TS/HRP-100)
- Built-in constant current limiting circuit
- Built-in remote sense function (HRP-150)
- Built-in 5V / 0.3A standby output (HRPG Series)
- DC OK signal output (≥200W)
- Current sharing function (HRPG-600/24/36/48, HRPG-1000)
- Cooling by free air (≤200W)
- Forced air cooling by built-in DC fan (≥200W)
- LED indicator for power on
- 5 years warranty

Models



Model No.	HRP-75	HRP-100	HRPG-150	HRPG-200
Vin	85-264VAC	85-264VAC	85-264VAC	85-264VAC
Vout / Iout	1.2V, 0-1.3A	1.2V, 0-20A	1.2V, 0-30A	1.2V, 0-40A
	5V, 0-1.5A	5V, 0-1.7A	5V, 0-20A	5V, 0-35A
	7.5V, 0-1.0A	7.5V, 0-13.5A	7.5V, 0-20A	7.5V, 0-26.7A
	12V, 0-6.3A	12V, 0-8.5A	12V, 0-13A	12V, 0-16.7A
	15V, 0-5A	15V, 0-7A	15V, 0-10A	15V, 0-13.4A
	24V, 0-3.2A	24V, 0-4.5A	24V, 0-6.5A	24V, 0-8.4A
	36V, 0-2.1A	36V, 0-2.9A	36V, 0-4.3A	36V, 0-5.7A
	48V, 0-1.6A	48V, 0-2.2A	48V, 0-3.3A	48V, 0-4.3A
Dimension (mm)	129x98x38	159x97x38	159x97x38	199x98x38

Model No.	HRPG-300	HRPG-450	HRPG-600	HRPG-1000
Vin	85-264V	85-264V	85-264V	90-264V
Vout / Iout	1.2V, 0-60A	1.2V, 0-90A	1.2V, 0-120A	1.2V, 0-80A
	5V, 0-60A	5V, 0-90A	5V, 0-120A	15V, 0-64A
	7.5V, 0-40A	7.5V, 0-60A	7.5V, 0-80A	24V, 0-42A
	12V, 0-27A	12V, 0-37.5A	12V, 0-53A	48V, 0-21A
	15V, 0-22A	15V, 0-30A	15V, 0-43A	
	24V, 0-14A	24V, 0-18.8A	24V, 0-27A	
	36V, 0-9A	36V, 0-12.5A	36V, 0-17.5A	
	48V, 0-7A	48V, 0-9.3A	48V, 0-11A	
Dimension (mm)	199x105x41	218x105x41	218x105x53.5	218x105x63.5

□=blank, △=blank basic function, ○=with 5Vsb & no load, ○△=5-7.5W

150-1000W High Reliability & High Peak
Enclosed Type(with PFC function)

HRP-N3 Series

AC-DC Enclosed-DC-DC HRP-N3 Series



■ Features

- Universal full range input: 85-264 VAC
- Withstand 300 VAC surge input for 5 sec
- Built-in active PFC function, PF > 0.95
- 110% peak power capability**
- High efficiency up to 94%
- Withstand 5G vibration
- Protections: Short Circuit/Overload/
Over Voltage/Over Temp
- Cooling by free air convection (HRP-150N3)
- Built-in cooling fan ON/OFF control
(HRP-300N3/600N3/1000N3)
- Built-in constant current limiting circuit
- Built-in remote sense function
- 3 years warranty**

■ Models



Model No.	HRP-150N3	HRP-300N3	HRP-600N3	HRP-1000N3
Volt/Load	12V, 0-13A	12V, 0-27A	12V, 0-53A	12V, 0-80A
	24V, 0-6.5A	24V, 0-14A	24V, 0-37A	24V, 0-42A
	36V, 0-4.3A	36V, 0-9A	36V, 0-17.5A	36V, 0-28A
	48V, 0-3.3A	48V, 0-7A	48V, 0-13A	48V, 0-21A
Dimension (mm)	139x87x38	199x165x41	218x165x63.5	218x165x63.5

DPU/PHP Series 3200/3500W High Power (with PFC function)



DPU-3200



PHP-3500



Optional
DIN Rail RCHS-90R



DPU-3200 Features

- Universal full range input: 90-264 VAC
- High efficiency up to 94.5%
- Forced air cooling by built-in DC fan
- Output voltage and constant current level programmable
- Active current sharing up to 16000W (4+1)
- Protections: Short Circuit/Overload/Over Voltage/Over Temp.
- Optional PMBus or CANBus protocol
- Optional conformal coating
- 5 years warranty

PHP-3500 Features

- Universal full range input: 90-264 VAC
- High efficiency up to 96%
- Fanless design, water-cooled power supply
- Slim and Low Profile (66 mm)
- Output voltage and constant current level programmable
- OVC III operating altitude up to 3000 meters
- Active current sharing up to 14000W (24V & 48V models)
- Optional PMBus or CANBus protocol
- Protections: Short Circuit/Overload/Over Voltage/Over Temp.
- Optional conformal coating
- Optional copper plate for efficiency implementation
- 5 years warranty

Models



Model No.	DPU-3200	PHP-3500
Vout / Iout	24V, 0~133A	24V, 0~145A
	48V, 0~67A	48V, 0~73A
Dimension (mm)	325.8x102x41	380x141.4x60

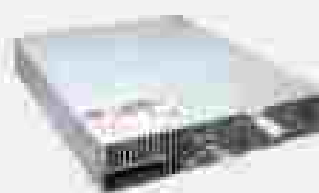
5000/10000W Three-Phase High-Voltage Input Programmable Power Supply (with PFC function)

RST Series

AC-DC Electronic RST Series



RST-5000



RST-10000

■ Features

- 2 phase input 3-wire/Δ100-300 VAC or 4-wire/Y240-530 VAC
- Built-in active PFC function
- High efficiency up to 92.5%
- Protection: Short Circuit/Overload/Over Voltage/Over Temperature/Fan Alarm
- Forced air cooling by built-in DC fan
- Output voltage and constant current level programmable
- Built-in current sharing up to 4 units
- Built-in remote sense and On/Off control
- Built-in 12V/0.1A auxiliary output
- Alarm signal output
- 5 years warranty

■ Models



Model No.	RST-5000	RST-10000
Vout / Iout	24V, 0~200A	24V, 0~400A
	30V, 0~138A	30V, 0~276A
	48V, 0~105A	48V, 0~210A
Dimension (mm)	460x211x83.5	540x424x83.5

QP Series

Quad Output Enclosed Type (with PFC function)



Features

- Universal full range input: (90-264 VAC)
- Protection: Short Circuit/Overload/Over Voltage/Over Temp. (Optional for QP-150)
- Forced air cooling by built-in DC fan
- Built-in active PFC function
- CH1 & 2 can be adjustable from -5% ~ +10% (QP-200/320)
- CH1 & 2 remote sense function (QP-200/320)
- With PG and PF signal output (QP-200/320)
- 3 years warranty

Models



Model No.	Output Function	QP-150B	QP-150C	QP-150D	QP-150F	QP-150-3A	QP-150-3B	QP-150-3C	QP-150-3D
Vout / Iout	CH1	5V 3~15A	5V 3~15A	5V 1~15A	5V 1~15A	5V 3~15A	5V 3~15A	5V 3~15A	5V 3~15A
	CH2	12V 0.4~5A	15V 0.4~4A	12V 0~5A	15V 0~5A	3.3V 0~15A	3.3V 0~15A	3.3V 0~15A	3.3V 0~15A
	CH3	-12V 0.3~2A	-15V 0.3~2A	24V 0.4~3A	24V 0.4~3A	12V 0.4~5A	12V 0.4~5A	15V 0.4~5.0A	24V 0.3~3A
	CH4	-5V 0~1A	-5V 0~1A	12V 0~1A	-15V 0~1A	-5V 0~1A	-12V 0~1A	-13V 0~1.0A	-12V 0~1A
Dimension (mm)	199x99x50								

Model No.	Output Function	QP-200D	QP-200F	QP-320D	QP-320F
Vout / Iout	CH1	5V, 3.0~20A	5V, 3~20A	5V, 2.5~20A	5V, 2.5~20A
	CH2	12V, 0~9A	15V, 0~8.0A	12V, 0~10A	15V, 0~10A
	CH3	24V, 0.4~6A	24V, 0.4~6A	24V, 0.2~5A	24V, 0.2~5A
	CH4	-12V, 0~1A	-15V, 0~1A	-12V, 0.2~2A	-15V, 0.2~1.6A
Dimension (mm)	215x115x50		215x115x50		

200~2500W Fanless Power Supply(with PFC function) UHP Series

AC-DC Single-Output UHP Series



UHP-200

UHP-1500

UHP-1000

UHP-750

UHP-500

UHP-350

UHP-200

Features

- Universal full range input: 90~264 VAC
- Withstand 300VAC surge input for 5 sec
- Filled with ball glue, dustproof and anti-vibration (except UHP-2500)
- Slim width and low profile
- Built-in active PFC function
- 150% peak load capacity (100ms, UHP-200~500)
- Fanless design, free air convection
- Output voltage and constant current level adjustable (>1000W)
- Protections: Short Circuit/Overload/Over Voltage/Over Temp.
- Optional PMBus or CANBus protocol(UHP-1500/2500)
- Redundancy function(UHP-R Series)
- Remote ON-OFF control (>1000W)
- DC OK active signal/LED indicator (for power on)
- 3 years warranty(UHP-200~750)
- 5 years warranty(UHP-1000/1500/2500)

Models



Model No.	UHP-200	UHP-150	UHP-500	UHP-750	UHP-1000	UHP-1500	UHP-2500
Output/Vout	3.3V, 0~40A	3.3V, 0~60A	4.2V, 0~80A	1.2V, 0~60A	1.2V, 0~80A	24V, 0~62.5A	24V, 0~104.2A
	4.2V, 0~40A	4.2V, 0~60A	5V, 0~80A	24V, 0~31.3A	24V, 0~42A	48V, 0~31.5A	36V, 0~69.4A
	5V, 0~40A	5V, 0~60A	12V, 0~41.7A	36V, 0~21A	35V, 0~28A		48V, 0~32.1A
	12V, 0~16.7A	12V, 0~20.2A	15V, 0~33.4A	48V, 0~15.7A	48V, 0~21A		
	15V, 0~13.4A	15V, 0~23.4A	24V, 0~20.8A				
	24V, 0~8.4A	24V, 0~14.6A	30V, 0~13.9A				
	36V, 0~5.6A	30V, 0~9.75A	48V, 0~10.4A				
	48V, 0~4.2A	48V, 0~7.3A	55V, 0~8.9A				
	55V, 0~3.6A	55V, 0~6.3A					
Dimension (mm)	194x55x25	220x53x31	233x81x31	237x100x31	240x115x31	290x140x41	310x140x50

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High Voltage Models

1500W~3000W DC High Voltage Output
Power Supply (With PFC function)



UHP-1500-HV



PHP-3500-HV



HEP-2500-HV



CSP-3000

■ UHP/PHP Features

- Slim type with fanless design
- Built-in active PFC function
- Output voltage and constant current level programmable
- Optional PMBus or CANBus protocol
- Built-in remote switch/DC OK signal/Auxiliary power output
- Protection type: Short Circuit/Overload/Over Voltage/Over Temp.
- Optional water-cooled plate-cooling device (PHP-3500-HV)
- **3 years warranty**

■ HEP Features

- Universal full range input: 90~305 VAC
- Built-in active PFC function
- High efficiency: up to 91.3%
- **Fanless design**, conduction natural convection heat dissipation
- Aluminum case and filling with heat-conducted silicone
- Withstand **10G** vibration test
- -40~+70°C wide operating range
- **Built-in CANBus/PMBus protocol selectable**
- Output voltage and constant current level programmable
- With DC_OK signal output, built-in remote ON-OFF control
- 12V/0.5A auxiliary power output
- LED indicator for power on
- Protection: Short Circuit/Overload/Overvoltage/Over Temp.
- **3 years warranty**

■ CSP Features

- Active PFC function
- High efficiency up to 92%
- Protection: Short Circuit/Overload/Overvoltage/Over Temp.
- Forced air cooling by built-in DC fan
- Output voltage and constant current level programmable
- Current sharing up to 3 units
- Remote ON-OFF control/Auxiliary Power/DC_OK signal output
- Optional conformal coating
- **3 years warranty**

■ Models

UL CB CE UK

Model No.	UHP-1500-HV	PHP-3500-HV	HEP-2500-HV	CSP-3000
Input	90~264VAC	90~264VAC	90~305VAC	180~264VAC
Vout / Iout	115V, 0~13A	115V, 0~25.2A	115V, 0~20A	120V, 0~25A
	230V, 0~7A	230V, 0~15.2A	230V, 0~10.6A	250V, 0~12A
	380V, 0~4.5A	380V, 0~9.2A	380V, 0~6.9A	400V, 0~7.5A
	380V, 0~3.95A			
Dimension (mm)	290x140x41	380x141.4x60	175x280x68	190x94x38

7.5KW-30KW DC High Voltage Output Power Supply (with PFC function)

High Voltage Models

High Voltage Models



RST-7.5K HV



RST-15K HV



SHP-10K HV



SHP-30K HV

RST/SHP Features

- Water / forced air cooling (selectable) (RST-7.5K/SHP-10K)
- Forced air cooling (RST-15K/SHP-30K)
- Built-in CANbus / Optional PMBus protocol / MODBus-RTU/RS-485 (SHP)
- Output voltage adjustable range: Widest up to 1~120V (RST)
- Active current sharing up to 20.5kW (RST)
- Active current sharing up to 30kW (SHP)
- Output voltage and constant current level programmable
- Built-in ON/OFF control / Alarm signal output
- DC OK active signal & Built-in 12V auxiliary power (SHP-10K/30K)
- Protection: Short Circuit / Overload / Over Voltage / Over Temp.
- 5 years warranty

Models



Model No.	RST-7.5K HV	RST-15K HV	SHP-10K HV	SHP-30K HV
Power	7.5kW 100-305VAC	15kW 140-330VAC	30.5kW 340-530VAC	
Vout / Iout	115V, 0-65A	115V, 0-130A	55V, 0-150A	55V, 0-450A
	230V, 0-34.5A	230V, 0-69A	115V, 0-87A	115V, 0-261A
	380V, 0-22.5A	380V, 0-45A	230V, 0-46.2A	230V, 0-139A
			380V, 0-30A	380V, 0-90A
Dimension (mm)	460x211x83.5	540x424x83.5	460x211x83.5	540x424x83.5

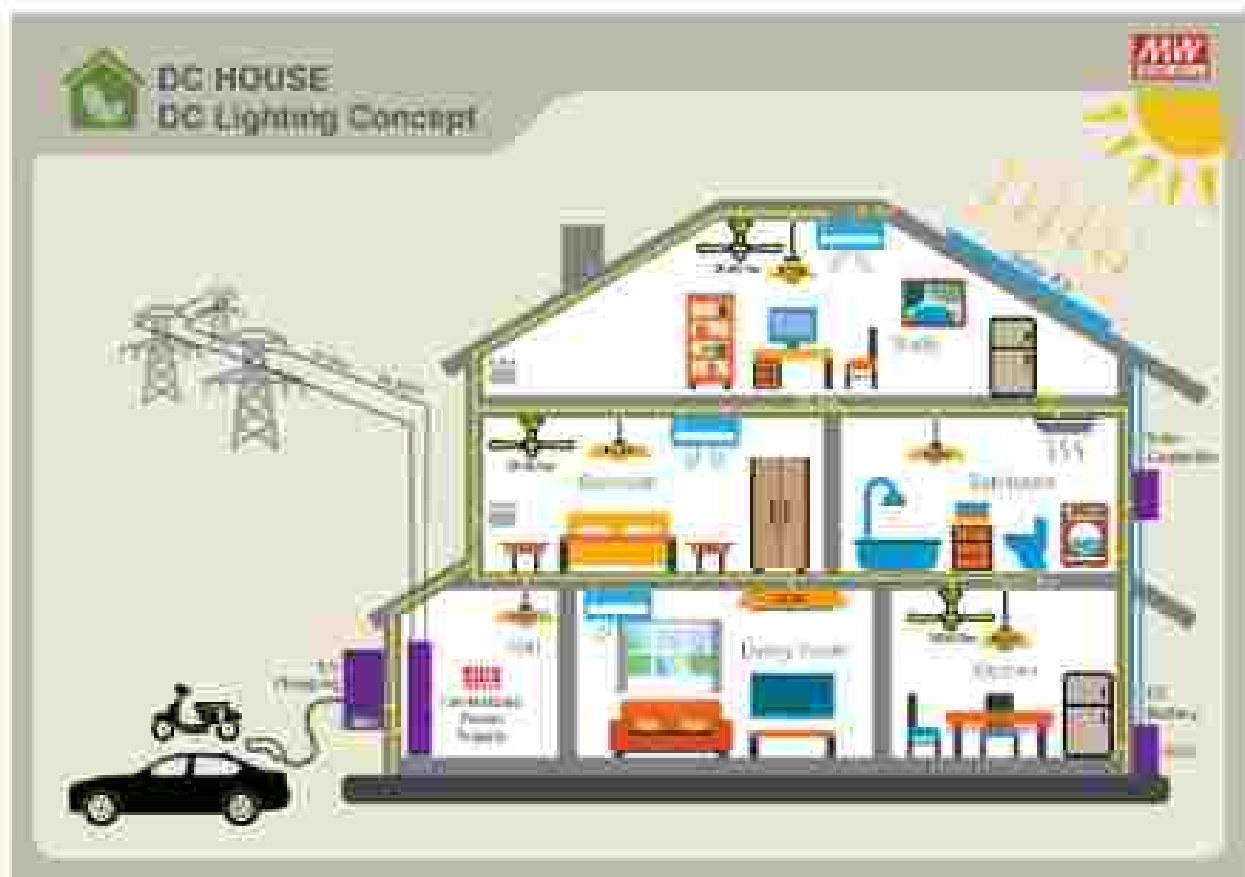
(Note: The SHP-30K-HV series is under development, expected to be launched in Q4 of 2023.)

DC Houses

As increases in energy costs and demands to reduce fossil-based emissions are accelerating a worldwide call for clean energy and efficient power consumption, the DC House is far beyond a concept but necessary infrastructure. MEAN WELL is proud to introduce a new DC centralized bus for indoor device applications to reduce power loss issue.

With nearly four decades of experience in power supply design and manufacturing, MEAN WELL provides power solutions for DC centralized bus and DC lighting applications with complete enclosed type and DC to DC LED driver product portfolios. The DC centralized bus is easily integrated into a renewable energy system to reduce power consumption and total cost.

Please refer to the below diagram for a brand new "DC WORLD".



DC Centralized Bus for Lighting Application Selection Guide

Voltage Catalog	Front-end (AC to DC Enclosed type)	Back-end (DC to DC LED driver)	Dimming function
Low Voltage Bus (48V)	GHF-1500(1400W) RST-5000(10000 (304W)) SRP-10K(303W)	HL05-H series LD05-HWB series LD0-H-DB series	-PWM -0-10V -DALI
High Voltage Bus (380V)	UHF-1500(1400W) RST-15K(15K (304W)) SRP-10K(303W)	HL05-H series	-PWM -Dim with DALI-2 for DALI system

Note: For detail LED Driver specification, please refer our LED power supply catalog.

380 Vdc High input Voltage

NHDD Series



Abstract

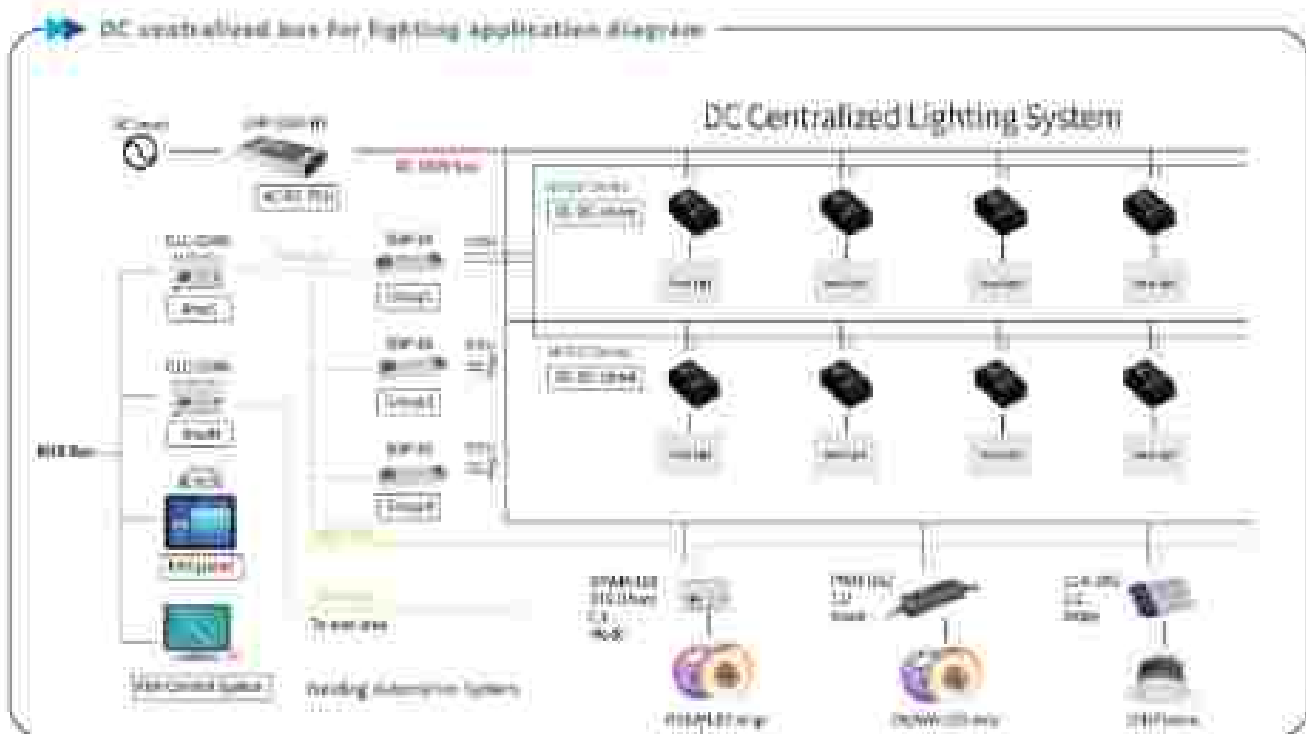
■ Features

- Constant current mode output
- For 380 Vdc BUS lighting luminaires
- Driver-on-board (DoB) solution available
- Plastic housing and fully encapsulated
- Built-in PWM dimming and Remote-ON/OFF control
- Protection: Short Circuit/Over Temperature
- 5 years warranty



Model No.	NHDP-40
Vout	350~420V
Dimension (mm)	32 (w) x 5 x 2.5

➡ DC centralised bus for lighting application diagram



SPV/ERDN Series

SPV 150-300W Programmable Enclosed Type
ERDN 20A/40A Enclosed Redundancy Module



SPV Features

- Universal full range input: 88-264 VAC
- Built-in active PFC function
- Cooling by free air convection (SPV-150)
- Forced air cooling by built-in DC fan (SPV-300)
- Output voltage programmable from 20-110%
by 1-5VDC external control signal
- Built-in remote ON-OFF control
- Built-in fan speed control (SPV-300)
- Protection: Short Circuit/Overload/Over Voltage/
Over Temp.
- 3 years warranty

ERDN Features

- Support 1+1 and N+1 redundancy system
- 2 channels input and 1 output
- Suitable for redundancy operation of 5V
(ERDN20 Only) 12V/24V/48V system
- Output current 20A & 40A
- Cooling by free air convection
- -40~+80°C wide operating range (>+60°C derating)
- Built-in 2 channels OC, OK signal and alarm
relay contact
- LED indicator for power on
- 3 years warranty

Models



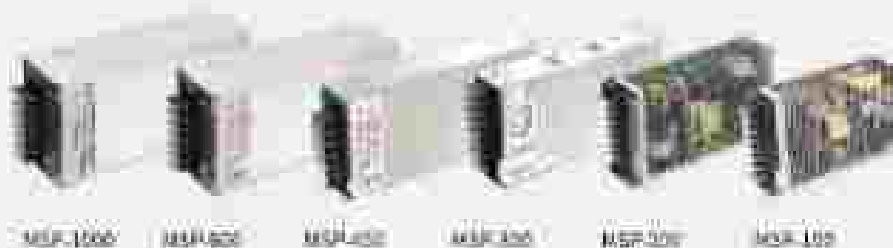
Model No.	SPV-150	SPV-300
V _{out} / Input	12V, 0-12.5A 24V, 0-6.25A 48V, 0-3.125A	12V, 0-25A 24V, 0-12.5A 48V, 0-6.25A
Dimension(mm)	215x115x90	215x115x50



Model No.	ERDN20-24				ERDN40-24		
	5	12	24	48	12	24	48
V _{in}	4.5-6VDC	9-14VDC	18-29VDC	36-60VDC	9-14VDC	18-29VDC	36-60VDC
Input / Output	2x10A/20A				2x20A/40A		
Dimension(mm)	82x69x36				97x69x36		
	C: 5, 12, 24, 48				C: 12, 24, 48		

100-1000W High Reliability Medical Enclosed Type

MSP Series



Features

- Universal full range input: 85-264 VAC
- Medical safety approved (UL MOPP)
- Built-in active PFC function
- Withstand 300VAC surge input for 5 secs.
- Protections: Short Circuit/Overload/Over Voltage/Over Temp.
- Built-in constant current limiting circuit
- Built-in remote sense function/remote ON/OFF control(MSP-200/300/4500/600/1000)
- Current sharing up to 4 units (MSP-600-24/36/48, MSP-1000)
- No load power consumption <0.5W<0.8W
- Stand by 5V@0.3A (MSP-300/500/4500/600/1000)
- Built-in DC OK signal (MSP-300/4500/600/1000)
- 3 years warranty

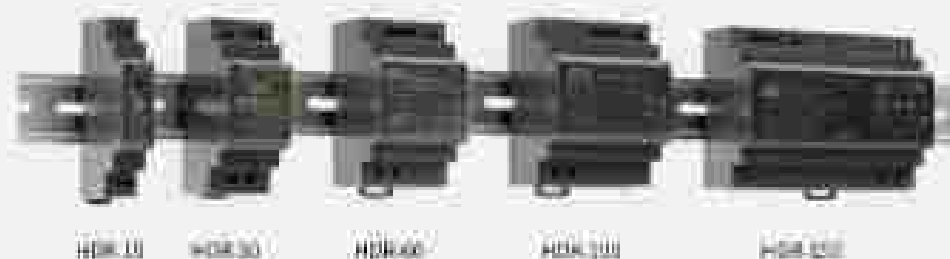
Models



Model (W)	MSP-100	MSP-200	MSP-300	MSP-450	MSP-600	MSP-1000
Vout/Vout	3.3V, 0~20A	3.3V, 0~40A	3.3V, 0~60A	3.3V, 0~90A	3.3V, 0~120A	12V, 0~80A
	5V, 0~17A	5V, 0~35A	5V, 0~50A	5V, 0~80A	5V, 0~120A	15V, 0~64A
	7.5V, 0~13.5A	7.5V, 0~26.7A	7.5V, 0~40A	7.5V, 0~60A	7.5V, 0~80A	24V, 0~42A
	12V, 0~8.5A	12V, 0~16.7A	12V, 0~27A	12V, 0~37.5A	12V, 0~53A	48V, 0~21A
	15V, 0~7A	15V, 0~13.4A	15V, 0~22A	15V, 0~30A	15V, 0~42A	
	24V, 0~4.5A	24V, 0~8.4A	24V, 0~14A	24V, 0~18.8A	24V, 0~27A	
	36V, 0~2.9A	36V, 0~5.7A	36V, 0~9A	36V, 0~12.3A	36V, 0~17.5A	
	48V, 0~2.2A	48V, 0~4.3A	48V, 0~7A	48V, 0~9.5A	48V, 0~13A	
Dimension (mm)	150x97x38	199x98x38	199x105x41	218x105x41	218x105x61.5	218x105x63.5

HDR Series

15-150W Step Shape DIN Rail Power



HDR-15

HDR-30

HDR-60

HDR-100

HDR-150

Features

- Universal full range input: 85-264 VAC (117 VAC operational)
- Isolation (Class I)
- DIN Rail: TS-35/7.5 or TS-35/15
- Cooling by free air convection
- Protections: Short Circuit/Overload/Over Voltage
- No load power consumption <0.1W
- Class 2 power unit/Pass LPS (HDR-15/30/60/100)
- Over voltage category III
- GC output voltage adjustable
- LED indicator for power on
- 2 years warranty

Models



Model No.	HDR-15	HDR-30	HDR-60	HDR-100	HDR-100-N	HDR-150
Vout/Iout	5V, 0~2.4A	5V, 0~3A	5V, 0~6.5A	12V, 0~7.1A	12V, 0~7.5A	12V, 0~11.3A
	12V, 0~1.25A	12V, 0~2A	12V, 0~4.5A	15V, 0~6.13A	15V, 0~6.5A	15V, 0~8.5A
	15V, 0~1A	15V, 0~2A	15V, 0~4A	24V, 0~3.83A	24V, 0~4.2A	24V, 0~6.25A
	24V, 0~0.63A	24V, 0~1.5A	24V, 0~2.5A	48V, 0~1.92A	48V, 0~2.1A	48V, 0~3.2A
	48V, 0~0.32A	48V, 0~0.75A	48V, 0~1.25A			
Dimension (mm)	17.5x90x54.5	35x90x54.5	32.5x90x54.5	70x90x54.5	70x90x54.5	105x90x54.5

HDR-100, 21W max., pass LPS

HDR-100-N, 100W max., non-LPS with a wide output adjustable range

10-96W Ultra Slim DIN Rail Power

MDR Series

DIN Rail Type-MDR Series



Features

- Universal full range input: 85-264 VAC
- Class 1 power unit
- DIN Rail: TS-35/7.5 or TS-35/15
- Cooling by free air convection
- Protections: Short Circuit/Overload/Over Voltage
- Built-in active PFC and over temp. protection (MDR-100)
- Dr. 2 Hazardous Locations: 1A (MDR-40/60)
- No load power consumption <0.75-1W
- DC-OK signal output (MDR-10/20)
- DC-OK relay contact (MDR-40-100)
- DC output voltage adjustable (MDR-30-100)
- LED indicator for power on
- 3 years warranty

Models



Model (W)	MDR-10	MDR-20	MDR-40	MDR-60	MDR-100
Volt / Volt	5V, 0-2A	5V, 0-3A	5V, 0-8A	5V, 0-1A	12V, 0-2.5A
	12V, 0-0.84A	12V, 0-1.67A	12V, 0-3.33A	12V, 0-1A	24V, 0-4A
	15V, 0-0.67A	15V, 0-1.34A	24V, 0-1.7A	24V, 0-2.5A	48V, 0-2A
	24V, 0-0.42A	24V, 0-1A	48V, 0-0.83A	48V, 0-1.25A	
Dimension (mm)	22.5x90x100	22.5x90x100	40x90x100	40x90x100	55x90x100

HDR vs. MDR

Difference Series	Casing Type	Protection Classes	Over Voltage Category	Working Temp.
HDR	Step Shape	Class II	OVC III	-30~+70°C
MDR	Ultra Slim	Class I	—	-30~+70°C

SDR Series

75-950W High Performance DIN Rail Power



SDR-75 SDR-120 SDR-240 SDR-480(P) SDR-950



Features

- Universal AC input / Full range (SDR-75~860)
180-264 VAC input only (SDR-950)
- DIN Rail: TS-35/T-5 or TS-35/15
- High efficiency up to **94%**
- Cooling by free air convection
- Protection: Short Circuit/Overload/
Over Voltage/Over Temp.
- **130%-150%** peak load capability
- DC output voltage adjustable
- **Current sharing** (1+1 for SDR-480P, 3+1 for SDR-950)
- Built-in DC ON/relay contact (Except for SDR-75)
- Built-in constant current limiting circuit
- **Comply with SEMI F47**
- EN61000-6-2/EN50082-2 industrial immunity level
- UL508(industrial control equipment) approved
- 3 years warranty

Models



Model No.	SDR-75	SDR-120	SDR-240	SDR-480	SDR-950
Vin	88-264VAC	88-264VAC	88-264VAC	90-264VAC	180-264VAC
	12V, 0-6.3A	12V, 0-10A	24V, 0-10A	24V, 0-20A	24V, 0-40A
Vout/Inrt	24V, 0-3.2A	24V, 0-5A	48V, 0-5A	48V, 0-10A	48V, 0-20A
	48V, 0-1.6A	48V, 0-2.5A			
Dimension (mm)	32x125.2x102	40x125.2x113.5	62x125.2x113.5	85.3x125.2x128.5	110x125.2x150

□Blank, P: Blank basic function; P: with parallel function

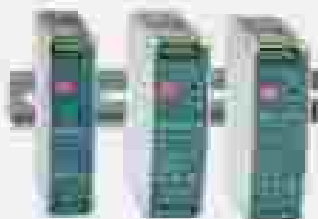
75-480W Economical DIN Rail Power

NDR/EDR Series

DIN Rail Type: NDR/EDR Series



NDR-75 NDR-120 NDR-240 NDR-480



EDR-75 EDR-120 EDR-150



Features

- Universal full range input: 90-264 VAC
- DIN Rail: TS-35/T.5 or TS-35/15
- Built-in active PFC (NDR-240/480)
- Cooling by free air convection
- Protection: Short Circuit/Overload/Over Voltage/Over Temp.
- DC output voltage adjustable
- Built-in constant current limiting circuit
- EN61000-6-3 (EN60062-3) industrial immunity level
- UL508 (Industrial control equipment) approved
- LED indicator for power on
- 3 years warranty (NDR Series)
- 2 years warranty (EDR Series)

Models

CB

Model No.	NDR-75	NDR-120	NDR-240	NDR-480
Vout / Iout	12V, 0-6.3A	12V, 0-10A	24V, 0-10A	24V, 0-20A
	24V, 0-3.2A	24V, 0-5A	48V, 0-5A	48V, 0-10A
	48V, 0-1.6A	48V, 0-2.5A		
Dimension (mm)	32x125.2x102	40x125.2x113.5	63x125.2x113.5	85.5x125.2x128.5

CB

Model No.	EDR-75	EDR-120	EDR-150
Vout / Iout	12V, 0-6.3A	12V, 0-10A	24V, 0-6.3A/0-5.2A
	24V, 0-3.2A	24V, 0-5A	
	48V, 0-1.6A	48V, 0-2.5A	
Dimension (mm)	32x125.2x102	40x125.2x113.5	40x125.2x113.5

EDR vs. NDR

Difference	EMI	Working Temp.	Warranty
EDR	Class A	-20~+60°C	2 years
NDR	Class B	-30~+70°C	3 years

WDR/TDR Series

WDR 60-480W Single-Phase Wide Input DIN Rail
TDR 240-960W Three-Phase Wide Input DIN Rail



WDR 60 WDR 120 WDR 240 WDR 480



TDR 240 TDR 480 TDR 960



WDR Features

- Single or two phase ultra wide input range 100-550VAC
- DIN Rail: TS-35/7.5 or TS-35/15
- Built-in active PFC (WDR-240/480)
- Built-in constant current limiting circuit
- Cooling by free air convection
- Protection: Short Circuit/Overload/Over Voltage/Over Temp.
- DC output voltage adjustable
- EN61000-6-2/EN50082-2 industrial immunity level
- Built-in DC OK relay contact
- Over voltage category III (WDR-60)
- 3 years warranty

TDR Features

- 3-phase 340-550VAC wide range input (2-phase operation possible)
- 31mm width with 92-116 mm
- DIN Rail: TS-35/7.5 or TS-35/15
- Built-in active PFC function (TDR-480/960)
- Built-in passive PFC function (TDR-240)
- High efficiency up to 94.5%
- Cooling by free air convection
- Protection: Overload/Over Voltage/Over Temp.
- DC output voltage adjustable
- UL508 / UL61010-3 industrial control equipment approved
- Current sharing up to 3840W (3-1) for TDR-960
- Built-in DC OK relay contact (optional for TDR-480)
- 3 years warranty

Models



Model No.	WDR-60	WDR-120	WDR-240	WDR-480
Vout / Iout	5V, 0-10A	12V, 0-10A	24V, 0-10A	24V, 0-20A
	12V, 0-5A	24V, 0-5A	48V, 0-5A	48V, 0-10A
	24V, 0-2.5A	48V, 0-2.5A		
	48V, 0-1.25A			
Dimension (mm)	33x125.2x102	40x125.2x113.5	63x125.2x113.5	85.5x125.2x128.5



Model No.	TDR-240	TDR-480	TDR-960
Vout / Iout	24V, 0-10A	24V, 0-20A	24V, 0-40A
	48V, 0-5A	48V, 0-10A	48V, 0-20A
Dimension (mm)	63x125.2x113.5	85.5x125.2x128.5	110x125.2x150

DRA 40W/60W Programmable DIN Rail
DRDN 20A/40A DIN Rail Redundancy Module

DRA/DRDN Series

DIN Rail Type-DRA/DRDN Series



DRA 40



DRA 60



DRDN 20



DRDN 40

DRA Features

- Universal full range input: 90-264 VAC
- DIN Rail: TS-35/7.5 or TS-35/15
- Output current adjustable through external 1-10VDC or PWM signal or resistance
- Cooling by free air convection
- Protections: Overload/Over Voltage/Over Temp./Pass LPS
- DC output voltage adjustable
- LED indicator for power on
- 3 years warranty

DRDN Features

- Support 1+1 and N+1 redundancy system
- DIN Rail: TS-35/7.5 or TS-35/15
- Output current 20A & 40A
- Suitable for redundancy operation of 12V/24V/48V system
- 2 channels input and 1 output
- 40~+80°C ultra wide operation temp. (>+80°C derating)
- Built-in 2 channels DC OK signal and alarm relay contact
- LED indicator for power on
- 3 years Warranty

Models

CB CE UK CA

MODEL NO.	DRA 40	DRA 60
Vout / Iout	12V, 0~3.24A 24V, 0~1.7A	12V, 0~5A 24V, 0~2.5A
Dimension (mm)	40x90x100	40x90x100

CB CE UK CA

MODEL NO.	DRDN20	DRDN40
Rated Voltage/Current	12V, 0~20A 24V, 0~20A 48V, 0~20A	12V, 0~40A 24V, 0~40A 48V, 0~40A
Dimension (mm)	32x125.2x102	35x125.2x113.5

CB 12, 24, 48

DBUF/DUPS Series

DBUF: 20A/40A DIN Rail Buffer Module

DUPS: 20A/40A DIN Rail Uninterruptible DC-UPS Module



DBUF20

DBUF40



DUPS20

DUPS40

DBUF Features

- Buffering with electrolytic capacitors instead of lead acid batteries
- Buffering time: 350ms@20A; 250ms@40A
- Suitable for 24VDC systems
- Buffer mode selectable by switch
- Fixed mode at 22VDC
- Dynamic mode for Vin-1VDC
- Support parallel connection to extend buffering time
- -25~+75°C wide operating temperature
- LED indicator for signal status
- 3 years warranty

DUPS Features

- Uninterruptible DC UPS controller
- Parallel connection to DC BUS (Power Supply+DC-UPS Module+Batteries+Load)
- Suitable for 24V system, up to 40A
- 2A Battery charging current
- Allows 4AH~135AH lead acid various battery capacities
- Complete diagnostic and monitoring for DC BUS OK, battery discharge, battery fail
- Protection: Battery Reverse Polarity / Short Circuit (By internal fuse) / Battery Discharge / Over Discharge Current
- Cooling by free air convection
- LED indicator for signal status
- 3 years warranty

Models

CB, CE, ENEC, TAC, UK, CB

Model No.	DBUF20-24	DBUF40-24
DC Operating Voltage Range	22~29VDC	22~29VDC
	350ms@20A	250ms@40A
Buffer Time	700ms@10A	500ms@20A
	45±0.1A	42±0.1A
Dimension (mm)	63x125.2x114.9	63x125.2x114.9

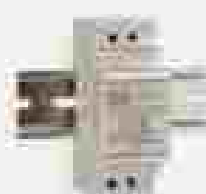
EN, CE, UK, CB

Model No.	DUPS20	DUPS40
DC BUS Voltage	24~29VDC	24~29VDC
DC BUS Current	20A	40A
Dimension (mm)	40x125.2x113.5	63x125.2x113.5

16A/28A AC Inrush Current Limiter

ICL Series

DIN Rail Type-ICL Series



ICL-16R



ICL-28R



ICL-16L



ICL-28L

Features

- ICL-16R/L: 23A inrush current limiting, 16A continuous
- ICL-28R/L: 48A inrush current limiting, 28A continuous
- 100~250VAC input
- Integrated bypass relay, no simple NTC
- Internal thermal protection
- DIN Rail: TS-35/7.5 or TS (ICL-16R/28R)
- 30~+70°C wide operating temperature
- Over voltage category III
- Operating altitude up to 5000 meters
- 3 years warranty

Models

FR C UK CA

Model No.	ICL-16R	ICL-16L	ICL-28R	ICL-28L
Inrush Current	16A	16A	28A	28A
Type	DIN Rail	Terminal Block	DIN Rail	Terminal Block
Dimension (mm)	35x90x54 (SWWHxO)	175x42x24(LxWxH)	35x90x54 (SWWHxO)	175x42x24(LxWxH)

Example of Application



For the number of power supplies being able to be connected to ICL-16R/L and ICL-28R/L, please refer to the installation manual.

MPM Series 5-50W Medical PCB-Mounted Module



MPM-05/10 MPM-15/20 MPM-30 MPM-30-ST MPM-45/50 MPM-45/50/50-ST



Features

- Universal full range input: 85-264 VAC
- Fully isolated plastic case
- Medical safety approved (2xMOPP)
- Suitable for **III** application with appropriate system consideration
- Protections: Short Circuit/Overload/Over Voltage/Over Temp.
- **Extremely low leakage current!**
- No load power consumption <0.075-0.1W
- EM: class B for class II configuration
- **-10~+55°C** wide range working temperature
- Miniature size, high power density
- Provide 110% peak power for 10 secs
- Glue filling, dustproof, waterproof, shockproof
- No minimum load required
- 3 years warranty

Models



Model No.	MPM-05	MPM-10	MPM-15	MPM-20
Vout/Iout	3.3V, 1.25A	3.3V, 2.5A	3.3V, 3.5A	3.3V, 4.5A
	5V, 1A	5V, 2A	5V, 3A	5V, 4A
	12V, 0.42A	12V, 0.85A	12V, 1.25A	12V, 1.8A
	15V, 0.33A	15V, 0.67A	15V, 1A	15V, 1.4A
	24V, 0.23A	24V, 0.42A	24V, 0.63A	24V, 0.9A
Dimension (mm)	45.7x25.4x21.5	45.7x25.4x21.5	52.4x27.2x24	52.4x27.2x24

Model No.	MPM-30-1	MPM-45-2	MPM-65-3	MPM-90-4
Vout/Iout	3.3V, 6A	5V, 8A	5V, 10A	12V, 6.7A
	5V, 6A	12V, 3.75A	12V, 5.42A	15V, 5.67A
	12V, 2.5A	15V, 3A	15V, 4.33A	24V, 3.75A
	15V, 2A	24V, 1.88A	24V, 2.71A	48V, 1.88A
	24V, 1.3A	48V, 0.94A	48V, 1.36A	
	48V, 0.63A			
Dimension (mm)	PCB mounting: 68.5x39x24 Screw I/O: 81x39.5x28.5		PCB mounting: 87x52x29.5 Screw I/O: 109x52x33.5	

□ = Blank, ST: Blank: PCB mounting, ST: Screw terminal style

5~30W Medical PCB Mounted

MFM Series



MFM-05



MFM-10



MFM-30



Features

- Universal full range input: 80~280VAC
- Cheap bare board
- Medical safety approved (0xMOPP)
- Suitable for **IT** application
- Protection: Short Circuit/Overload/Over Voltage/Over Temp. (Except for MFM-30)
- Extremely low leakage current
- No load power consumption <0.075~0.1W
- Eff class B for Class II configuration
- 40~+85°C wide range working temp.
- Miniature size, high power density
- Provide 110% peak power for 10 secs
- No minimum load required
- 2 years warranty

Models



Model No.	MFM-05	MFM-10	MFM-15	MFM-20	MFM-30
Voltage/Load	3.3V, 1.25A	3.3V, 2.5A	3.3V, 3.5A	3.3V, 4.5A	3.3V, 6A
	5V, 1A	5V, 2A	5V, 3A	5V, 4A	5V, 6A
	12V, 0.42A	12V, 0.85A	12V, 1.25A	12V, 1.8A	12V, 2.5A
	15V, 0.33A	15V, 0.67A	15V, 1A	15V, 1.4A	15V, 2A
	24V, 0.23A	24V, 0.42A	24V, 0.63A	24V, 0.9A	24V, 1.3A
Dimension (mm)					48V, 0.63A
	42x22.8x20.5	42x22.8x20.5	49x23.8x23	49x23.8x23	65.5x35x23

Product Roadmap of Universal PCB

EE + Medical + Home Appliances LDP Series

3" x 2"	 EPS-20V-0.5W EPS-20V-0.5W EPS-20V-0.5W	 EPS-12V-0.5W EPS-12V-0.5W			
4" x 2"	 EPS-5V-1A EPS-5V-1A	 EPS-10V-1A EPS-10V-1A	 EPS-12V-1A EPS-12V-1A	 EPS-15V-1A EPS-15V-1A	
5" x 3"	 EPS-5V-2A EPS-5V-2A	 EPS-10V-2A EPS-10V-2A	 EPS-12V-2A EPS-12V-2A	 EPS-15V-2A EPS-15V-2A	 EPS-20V-2A EPS-20V-2A

Note: The LDP-200~600 series is under development, expected to be launched in Q4 of 2023.

IRM Series

1-90W Industrial PCB-Mounted Module



Features

- Universal full-range input: 85-300VAC
- Fully isolated plastic case
- No load power consumption <0.075-0.3W
- Miniature size, high power density
- Protections: Short Circuit/Overload/Over Voltage
- Cooling by free air convection
- Isolation Class II
- EMC: Class II (IRM-30-01)
- EMC: Class II/Class II/Class II Class II, without additional components
- Glue filling dustproof, waterproof, 5G vibration test
- High operating temperature up to +85°C
- Pass LES
- (Except for IRM45/60-S & IRM-30)
- PCB, 21mm or screw terminal mounting version (IRM-30-20ST)
- 3 years warranty

Models

LPS CB

Model No.	IRM-01	IRM-02	IRM-03	IRM-05	IRM-10	IRM-15
Vout / Iout	3.3V, 0-0.3A	3.3V, 0-0.6A	3.3V, 0-0.9A	3.3V, 0-1.25A	3.3V, 0-2.5A	3.3V, 0-3.5A
	5V, 0-0.2A	5V, 0-0.4A	5V, 0-0.6A	5V, 0-1A	5V, 0-2A	5V, 0-3A
	9V, 0-0.111A	9V, 0-0.222A	9V, 0-0.333A	12V, 0-0.42A	12V, 0-0.85A	12V, 0-1.25A
	12V, 0-0.083A	12V, 0-0.167A	12V, 0-0.25A	15V, 0-0.33A	15V, 0-0.67A	15V, 0-1A
	15V, 0-0.067A	15V, 0-0.133A	15V, 0-0.2A	24V, 0-0.23A	24V, 0-0.42A	24V, 0-0.61A
	24V, 0-0.042A	24V, 0-0.083A	24V, 0-0.125A			
Dimension (mm)	PCB: 11.7x22.2x15 SMD: 31.7x22.2x16		PCB: 17x24x15 SMD: 37x24x16	45.7x25.4x21.5		52.4x27.2x24

□=Blank, S=Blank/PCB mounting style, S=SMD type

Model No.	IRM-20	IRM-30-ST	IRM-45	IRM-60	IRM-90
Vout / Iout	3.3V, 0-4.5A	5V, 0-6A	5V, 0-8A	5V, 0-10A	12V, 0-6.7A
	5V, 0-4A	12V, 0-2.5A	12V, 0-3.8A	12V, 0-5A	15V, 0-6.25A
	12V, 0-1.8A	15V, 0-2A	15V, 0-3A	15V, 0-4A	24V, 0-3.75A
	15V, 0-1.4A	24V, 0-1.3A	24V, 0-1.9A	24V, 0-2.5A	48V, 0-1.88A
	24V, 0-0.9A	48V, 0-0.61A	48V, 0-0.94A	48V, 0-1.25A	
Dimension (mm)	52.4x27.2x24	PCB mounting: 69.5x39x24 Screw I/O: 51x38.5x28.5		PCB mounting: 87x52x29.5, Screw I/O: 109x52x33.5	

□=Blank, ST=Blank/PCB mounting style, ST=Screw terminal style

30~200W Single Output Medical PCB Type

RPS Series



RPS-30W/02
(30W/2)



RPS-120S
(120W)



RPS-65
(65W)



RPS-120
(120W)



RPS-200
(100W)



RPS-75
(75W)



RPS-100
(100W)



RPS-120/300-LC

PCB Open Frame RPS Series

Features

- 3" x 2.4" / 2" x 3" compact size
- Class I or Class II configuration
- Medical safety approved OX40PF
- Built-in Active PFC (RPS-120S/160/200)
- Suitable for BT application with appropriate system consideration
- Extremely low leakage current
- Built-in Power Good/Power Fail signal output (RPS-160)
- Remote voltage compensation function (RPS-160 5-15V)
- No load power consumption <0.1W~0.25W
- Protection: Short Circuit/Overload/Over Voltage/Over Temp.(120~200W)
- 12V auxiliary output (RPS-120/200)
- 5V/0.5A auxiliary power output (RPS-60-160)
- LED indicator for power on (Except for RPS-60)
- 110~125% peak load capability
- 3 years warranty

Models



3" x 2"				
Model No.	RPS-30 (30W/2)	RPS-41 (40W/2)	RPS-65 (65W/2)	RPS-120S (120W/2)
Vin	80~264VAC	80~264VAC	80~264VAC	80~264VAC
Vout / Iout	3.3V, 3A / 6.5A	3.3V, 8A / 8.8A	3.3V, 10A / 11A	12V, 9.5A / 11.8A
	5V, 8A / 6.5A	5V, 8A / 8.8A	5V, 10A / 11A	15V, 7.8A / 9.5A
	7.5V, 8A / 4.8A	7.5V, 5.4A / 5.95A	7.5V, 8A / 8.8A	24V, 5A / 6.25A
	12V, 2.5A / 2.75A	12V, 3.8A / 4.18A	12V, 5.42A / 5.96A	27V, 4.44A / 5.55A
	15V, 2A / 2.2A	15V, 3A / 3.3A	15V, 4.34A / 4.77A	48V, 2.5A / 3.125A
	24V, 1.25A / 1.375A	24V, 1.9A / 2.1A	24V, 2.71A / 2.98A	
Dimension (mm)	76.2x50.8x24	76.2x50.8x24	76.2x50.8x24	76.2x50.8x28

4"x2"			3"x3"		
Model No.	RPS-60 (60W/2)	RPS-120-L (120W/2)	RPS-200-L (200W/2)	RPS-75 (75W/2)	RPS-160 (160W/2)
Vin	80~264VAC	80~264VAC	80~264VAC	90~264VAC	90~264VAC
Vout / Iout	3.3V, 10A / 11A	12V, 7A / 10A	12V, 11.7A / 10.7A	3.3V, 15A / 20A	5V, 20A / 30A
	5V, 10A / 11A	15V, 5.6A / 8A	15V, 9.4A / 11.4A	5V, 14A / 18.7A	12V, 9.1A / 12.6A
	12V, 5A / 5.5A	24V, 3.5A / 3A	24V, 5.9A / 8.8A	12V, 6.5A / 8.3A	15V, 2.3A / 10.8A
	15V, 4A / 4.4A	27V, 3.15A / 4.3A	27V, 3.3A / 7.1A	15V, 5A / 6.7A	24V, 4.6A / 6.5A
	24V, 2.5A / 2.75A	48V, 1.75A / 2.5A	48V, 3A / 4.2A	24V, 3.2A / 4.2A	48V, 2.3A / 3.25A
	48V, 1.25A / 1.375A			36V, 2.1A / 2.8A	
			48V, 1.6A / 2.1A		
Dimension (mm)	101.6x50.8x29	PCB: 101.6x50.8x30 Case: 108.4x62x40	PCB: 101.6x50.8x30 Case: 101.6x62x40	127x76.2x31	127x76.2x34.6

[□] = Blank, [-C] Blank; PCB type (standard) [-E] Enclosed type (optional)

[O] = Blank, [G] Blank; Without 5Vsb, [G] With 5Vsb & no load power consumption = 0.5W

RPS Series

300-500W Single Output Medical PCB Type



RPS-300: 300W/20.6A/12V (PCB)
 RPS-400: 400W/26.7A/12V (PCB)
 RPS-500: 500W/33.3A/12V (PCB)
 RPS-300+C: 300W/20.6A/12V (Enclosed)
 RPS-400+C: 400W/26.7A/12V (Enclosed)
 RPS-500+C: 500W/33.3A/12V (Enclosed)
 RPS-400+TF: 400W/26.7A/12V (Enclosed with fan on top)
 RPS-500+TF: 500W/33.3A/12V (Enclosed with fan on top)
 RPS-300+SF: 300W/20.6A/12V (Enclosed with fan on side)
 RPS-400+SF: 400W/26.7A/12V (Enclosed with fan on side)
 RPS-500+SF: 500W/33.3A/12V (Enclosed with fan on side)

Features

- 5"X3" compact size
- Built-in Active PFC
- Medical safety approved (2x MOPP)
- Suitable for BF application with appropriate system consideration
- Class I or Class II configuration
- Protection: Short Circuit/Overload/Over Voltage/Over Temp.
- Extremely low leakage current
- Built-in P.G. & P.F. signal output and remote sense function
- No load power consumption < 0.5W by PS-ON only
- 12V for external FAN supply
- 5V 1A standby output
- LED indicator for power on
- PCB, Enclosed, Enclosed with top FAN / Side FAN
- Various installation options
- 3 years warranty

Models



5"X3"			
Model No.	RPS-300- 300W/20.6A/12V	RPS-400- 400W/26.7A/12V	RPS-500- 500W/33.3A/12V
Vout / Iout	12V, 16.67A / 25A	12V, 20.6A / 31.3A	12V, 26.7A / 41.6A
	15V, 13.33A / 20A	15V, 16.7A / 26.7A	15V, 21.3A / 31.3A
	24V, 8.33A / 12.3A	18V, 13.9A / 22.3A	18V, 17.6A / 27.6A
	27V, 7.4A / 11.17A	24V, 10.5A / 16.7A	24V, 13.4A / 20.8A
	48V, 4.17A / 6.25A	27V, 9.3A / 14.8A	27V, 11.9A / 18.5A
		36V, 7A / 11.3A	36V, 8.9A / 13.6A
		48V, 5.3A / 8.4A	48V, 6.7A / 10.4A

C=Blank, C: Blank: PCB type -C: Enclosed type

S=Blank, S: Blank: PCB type -S: Enclosed type -TF: Enclosed type with fan on the top

SF: Enclosed type with fan on the side

2-4 Output Medical PCB Type

RPD/T & MPQ Series



RPD-160
55x60x25mm
(1"x2")



RPD-T-75
127x65x25mm
(5"x3")



RPT-160
127x65x25mm
(5"x3")



RPT-160-C
127x70x25mm
(5"x3"x1")



MPQ-200
127x65x31.25mm
(5"x4.2")



Features

- **4x2.5x2" Compact Size**
- Class I or Class II configuration
- **Medical safety approved (2xMOPP)**
- Built-in Active PFC (RPT-160, MPQ-200)
- Suitable for **BF** application
- **Extremely low leakage current**
- Built-in P/G & P/F signal output (RPT-160)
- No load power consumption <0.1W (0.15W)
- Protection: Short Circuit/Overload/Over Voltage/Over Temp. (RPT-160)
- 5V/0.8A standby output (RPTG-160)
- LED Indicator for power on (Only RPT-160/MPQ-200)
- 3 years warranty

Models

Dual Output



Model No.	Output	RPD-60A	RPD-60B	RPD-75A	RPD-75B
Vout / Iout	CH1	5V, 0.5-5.5A	5V, 0.5-1.85A	5V, 1-0.5A	5V, 1-0.8A
	CH2	12V, 0.1-2.2A	24V, 0.1-1.05A	12V, 0.3-4A	24V, 0.2-2.7A

Triple Output

Model No.	Output	RPT-60A	RPT-60B	RPT-60C	RPT-60D	RPT-6003
Vout / Iout	CH1	5V, 0.5-4.4A	5V, 0.5-4.4A	5V, 0.5-4.4A	5V, 0.5-3.05A	3.3V, 0.5-5.5A
	CH2	12V, 0.1-2.2A	12V, 0.1-2.2A	15V, 0.1-0.65A	24V, 0.1-1.1A	5V, 0.3-1.3A
	CH3	5V, 0.1-0.55A	-12V, 0.1-0.55A	-15V, 0.1-0.55A	12V, 0.1-0.51A	12V, 0.1-0.77A

Model No.	Output	RPT-75A	RPT-75B	RPT-75C	RPT-75D	RPT-7503
Vout / Iout	CH1	5V, 0.6-8A	5V, 0.6-8A	3V, 0.6-8A	5V, 0.6-7A	3.3V, 0.7-7A
	CH2	12V, 0.2-4A	12V, 0.2-4A	15V, 0.1-3A	24V, 0.1-2A	5V, 0-8A
	CH3	5V, 0.1-1A	-12V, 0.1-1A	-15V, 0.1-1A	12V, 0.1-1A	12V, 0-1.5A

Model No.	Output	RPT-160A	RPT-160B	RPT-160C	RPT-160D
Vout / Iout	CH1	5V, 0.6-1.4A	5V, 0.6-1.4A	5V, 0.6-1.4A	5V, 0.3-1.1A
	CH2	12V, 0.2-3.5A	12V, 0.2-3A	15V, 0.1-3.6A	12V, 0.2-3A
	CH3	5V, 0.1-1W	-12V, 0.1-1A	-15V, 0.1-1A	24V, 0.15-1.2A

CH1Blank, < Blank: basic type (type 0) with 5V/0.8A & no load power consumption: 0.15W

CH1Blank, < Blank: PCB type (standard) - C: Enclosed type (optional)

Quad Output

Model No.	Output	MPQ-200B	MPQ-200C	MPQ-200D	MPQ-200F
Vout / Iout	CH1	5V, 3-1.8A	5V, 3-1.8A	5V, 3-1.8A	5V, 3-1.8A
	CH2	12V, 0.7-5.4A	15V, 0.5-6A	24V, 0.3-5.6A	24V, 0.3-5.3A
	CH3	5V, 0-2.4A	5V, 0-2.4A	12V, 0-2.4A	15V, 0-2.4A
	CH4	-12V, 0-2.4A	-15V, 0-2.4A	12V, 0-2.4A	15V, 0-2.4A

EPS Series

5-120W Single Output Industrial PCB Type



EPS-05
0.5W/1.0V



EPS-15
0.5W/1.5V



EPS-25/05
1W/1.5V



EPS-403/05
1.5W/1.5V



EPS-40/05
1W/1.5V



EPS-45-C
EPS-45-C
1.5W/1.5V



EPS-120
12W/3V



Features

- Universal AC input/Full range
- No load power consumption < 0.1-0.2W
- Provide 110% peak power for 10-sec.
- Compact size, 1U low profile
- Cooling by free air convection
- Protection: Short-Circuit/Overload/Over-Voltage
- Class I or Class II Installation
- -20~+70°C wide range of operating temp.
- 12V/0.5A for external FAN supply (EPS-120)
- LED indicator for power on (Except for EPS-15)
- Optional Enclosed type (EPS-45/65-C)
- 3 years warranty

Models



	2.95" x 1.57"		2.5" x 1.8"		3" x 2"	
Model no.	PS-05	EPS-15	EPS-25	EPS-35	EPS-45S	EPS-65S
Vin	85-264VAC	85-264VAC	85-264VAC	85-264VAC	85-264VAC	85-264VAC
	5V, 0-1A	1.2V, 0-3A	1.2V, 0-5A	1.2V, 0-6A	1.2V, 0-8A	1.2V, 0-10A
	1.2V, 0-0.45A	5V, 0-3A	5V, 0-5A	5V, 0-6A	5V, 0-8A	5V, 0-10A
	1.5V, 0-0.35A	7.5V, 0-2A	7.5V, 0-3.4A	7.5V, 0-4.2A	7.5V, 0-5.4A	7.5V, 0-8A
	24V, 0-0.22A	12V, 0-1.25A	12V, 0-2.1A	12V, 0-3A	12V, 0-3.8A	12V, 0-5.42A
	48V, 0-0.11A	15V, 0-1A	15V, 0-1.5A	15V, 0-2.4A	15V, 0-3A	15V, 0-4.34A
		24V, 0-0.025A	24V, 0-1.01A	24V, 0-1.5A	24V, 0-1.3A	24V, 0-2.71A
Vout / load		27V, 0-0.56A	27V, 0-0.95A	27V, 0-1.3A	48V, 0-0.34A	48V, 0-1.36A
		36V, 0-0.42A	36V, 0-0.7A	36V, 0-1A		
		48V, 0-0.313A	48V, 0-0.33A	48V, 0-0.75A		
Dimension (mm)	75x40x20	63.5x45.7x24	76.2x50.8x24	76.2x50.8x24	76.2x50.8x24	76.2x50.8x24

	4" x 2"		
Model no.	EPS-45-C	EPS-65-C	EPS-120
Vin	85-264VAC	85-264VAC	85-264VAC
	1.2V, 8A	1.2V, 11A	1.2V, 7A
	5V, 8A	5V, 11A	1.5V, 5.6A
	7.5V, 5.4A	7.5V, 8A	24V, 1.5A
	12V, 1.75A	12V, 5.42A	27V, 1.35A
	15V, 1A	15V, 4.34A	48V, 1.75A
	24V, 1.9A	24V, 2.71A	
Vout / load	36V, 1.25A	36V, 1.31A	
	48V, 1A	48V, 1.36A	
Dimension (mm)	PCB: 101.6x50.8x29 / Case: 103.4x52x37		101.6x50.8x29

C=Blank, -C= Blank PCB type -C=Enclosed type

100~500W Single Output Industrial PCB Type (with PFC function)

EPP Series



EPP-120S
(5V/2A)

EPP-100
(5V/2A)

EPP-150
(5V/3A)

EPP-200
(5V/3A)

EPP-300
(5V/6A)

EPP-400
(5V/8A)

EPP-500
(5V/10A)

Features

- Universal AC Input/Full range
- Built-in Active PFC
- Class I or Class II installations
- No load power consumption<0.5W
- High efficiency up to 94%
- Protections: Short Circuit/Overload/Over Voltage/Over Temp.
- 12V for external FAN supply (EPP-300~500)
- PG signal & remote sense function (EPP-300~500)
- Operating altitude up to 5000 meters (EPP-120S~500)
- LED indicator for power on (Except for EPP-120S)
- 3 years warranty

Models



Model No.	3"X2"		4"X2"	
	EPP-120S (5V/2A)	EPP-100 (5V/2A)	EPP-150 (5V/3A)	EPP-200 (5V/3A)
Vin	80~264VAC	80~264VAC	80~264VAC	80~264VAC
Vout / Iout	12V, 0.5A / 1.18A	12V, 0.3A / 0.5A	12V, 0.4A / 1.25A	12V, 1.17A / 16.7A
	15V, 7.6A / 9.5A	15V, 5A / 6.67A	15V, 6.7A / 10A	15V, 9.4A / 13.4A
	24V, 5A / 6.25A	24V, 3.2A / 4.2A	24V, 4.2A / 6.25A	24V, 5.9A / 8.4A
	27V, 4.44A / 5.55A	27V, 2.8A / 3.71A	27V, 3.71A / 5.56A	27V, 5.3A / 7.5A
	48V, 2.5A / 3.125A	48V, 1.6A / 2.1A	48V, 2.1A / 3.125A	48V, 3A / 4.2A
Dimension (mm)	76.2x50.8x28	101.6x50.8x29	101.6x50.8x29	101.6x50.8x29

Model No.	5"X3"		
	EPP-300 (5V/6A)	EPP-400 (5V/8A)	EPP-500 (5V/10A)
Vin	80~264VAC	80~264VAC	80~264VAC
Vout / Iout	12V, 16.67A / 25A	12V, 20.8A / 33.3A	12V, 26.7A / 41.5A
	15V, 13.33A / 20A	15V, 16.7A / 26.7A	15V, 21.3A / 33.3A
	24V, 8.33A / 12.5A	24V, 10.5A / 16.7A	18V, 17.8A / 27.8A
	27V, 7.4A / 11.12A	27V, 9.5A / 14.9A	24V, 13.4A / 20.6A
	48V, 4.17A / 6.25A	50V, 7A / 11.2A	27V, 11.9A / 18.5A
		48V, 5.3A / 8.4A	36V, 8.9A / 13.9A
			48V, 6.7A / 10.4A
Dimension (mm)			34V, 5.93A / 9.26A
	127x76.2x35	127x76.2x35	127x76.2x41

LOP Series

200-600W Low Profile Single Output PCB Type
(with PFC function)



LOP-200
(15-20%)



LOP-300
(15-27%)



LOP-400
(17-30%)



LOP-500
(19-37%)



LOP-600
(19-37%)



Features

- 80+25% VAC input, with PFC function
- No load power consumption < 0.3W
- 100% peak power capability
- Class I or Class II installation
- High efficiency up to 94%
- Protection: Short Circuit/Overload/ Over Voltage/Over Temp.

- Ultra low profile design (23.4~23.8mm)
- 40~+60°C wide range of operating temp. (OVC II)
- Operating altitude up to 5000 meters
- IEC/EN/UL 52365-1, 60951-1, IEC/EN 60335-1, 61558-8
- CCC GB4943.1 approved
- 3 years warranty

Models



4"x2"		
Model No.	LOP-200 <i>Power range 200W, Output Power 1</i>	LOP-300 <i>Power range 300W, Output Power 1</i>
Vout/Vout	12V, 11.7A/16.7A/25A	12V, 15A/25A/37.5A
	15V, 9.4A/11.4A/20A	15V, 12A/20A/30A
	18V, 7.8A/11.1A/16.7A	18V, 10A/16.7A/25A
	24V, 5.9A/8.4A/12.5A	24V, 7.5A/12.5A/18.8A
	27V, 5.3A/7.5A/11.1A	27V, 6.7A/11.1A/16.7A
	36V, 3.9A/5.6A/8.3A	36V, 6A/10A/15A
	48V, 3A/4.2A/6.3A	36V, 3A/4.2A/12.5A
	54V, 2.7A/3.8A/5.6A	48V, 3.8A/6.3A/9.4A
Dimension (mm)	101.6x50.8x25.4	

5"x3"			
Model No.	LOP-400 <i>Power range 400W, Output Power 1</i>	LOP-500 <i>Power range 500W, Output Power 1</i>	LOP-600 <i>Power range 600W, Output Power 1</i>
Vout/Vout	12V, 20.8A/33.3A/50A	12V, 25A/41.6A/62.5A	12V, 30A/50A/75A
	15V, 16.7A/26.7A/40A	15V, 20A/33.3A/50A	15V, 24A/40A/60A
	18V, 13.9A/22.2A/33.3A	18V, 16.7A/27.8A/41.7A	18V, 20A/33.3A/50A
	24V, 10.5A/16.7A/25A	24V, 13.4A/20.8A/31.3A	24V, 16.7A/25A/37.5A
	27V, 9.3A/14.9A/22.2A	27V, 11.9A/18.5A/27.8A	27V, 14.9A/22.2A/33.3A
	36V, 7A/11.2A/16.7A	36V, 8.9A/13.9A/20.8A	36V, 11.1A/16.7A/25A
	48V, 5.3A/8.4A/12.5A	48V, 6.7A/10.4A/15.6A	48V, 8.3A/12.5A/18.8A
	54V, 4.6A/7.4A/11.1A	54V, 5.9A/9.3A/13.9A	54V, 7.4A/11.2A/16.7A
Dimension (mm)	127x76.2x27.3	127x76.2x27.3	127x76.2x33.5

50-150W Single Output Industrial PCB Type

LPS/ELP/LPP Series

PCB Output Power: LPS/ELP/LPP Series



LPS-50

LPS-75

ELP-75

LPS-100

LPP-100

LPP-150

Features

- Universal AC Input/Full range
- Built-in Active PFC (LPP-100/L50,ELP-75)
- Protection: Short Circuit/Overload/Over Voltage
- Optional over temperature protection (LPP-150)
- Built-in remote ON-OFF control (LPS-50/75)
- Cooling by free air convection
- 2 years warranty (LPS Series)
- 3 years warranty (LPP,ELP Series)

Models



Model No.	LPS-50	LPS-75	ELP-75	LPS-100	LPP-100	LPP-150
Vin	90~264VAC	90~264VAC	90~264VAC	115/230 AUTO SWITCH	85~264VAC	85~264VAC
Vout/Iout	3.3V, 0~10A	3.3V, 0~15A	3.3V, 15A	3.3V, 0~20A	3.3V, 0~20A	3.3V, 0~20A
	5V, 0~10A	5V, 0~15A	5V, 15A	5V, 0~20A	5V, 0~20A	5V, 0~20A
	12V, 0~4.2A	12V, 0~6.2A	12V, 6.25A	7.5V, 0~13.3A	7.5V, 0~13.5A	7.5V, 0~20A
	15V, 0~3.4A	15V, 0~5.0A	15V, 5A	12V, 0~8.4A	12V, 0~8.5A	12V, 0~12.5A
	24V, 0~2.1A	24V, 0~3.2A	24V, 3.15A	13.5V, 0~7.5A	13.5V, 0~7.5A	13.5V, 0~11.2A
	48V, 0~1.1A	48V, 0~1.55A	36V, 2.1A	15V, 0~6.7A	15V, 0~6.7A	15V, 0~10A
			48V, 1.5A	24V, 0~4.2A	24V, 0~4.2A	24V, 0~6.3A
				27V, 0~3.8A	27V, 0~3.8A	27V, 0~5.6A
				48V, 0~2.1A	48V, 0~2.1A	48V, 0~3.2A
Dimension (mm)	195x55x23	222x55x30	175x60x27	222x62x32	222x62x33.6	222x75x41

PD/RPD/PID Series 25-250W Dual Output Industrial PCB-Type



PD-25
5W/5A/4V



PD-45
15W/3A



PD-65
25W/3A



RPD-45
15W/3A



PID-250
250W/2.7A

Features

- Universal AC input/Full range: 90-250VAC
- Built-in active PFC function (PID-250)
- Cooling by free air convection (Except for PID-250)
- Protection: Short Circuit/Overload/Over Voltage (Only PID-250)/Over Temp
- 2 years warranty
- 3 years warranty (PID-250)

Models



Model No.	Output Number	PD-25A	PD-25B	PD-250C	PD-2512	PD-2515
Volt / Volt	CH1	5V, 0.2-2.5A	5V, 0.2-2A	5V, 0.1-3A	12V, 0.1-1.2A	15V, 0.1-1A
	CH2	12V, 0.1-1.5A	24V, 0.1-1A	-3V, 0.1-2.5A	12V, 0.1-1.3A	15V, 0.1-1A
Dimension (mm)	107x61x28					

Model No.	Output Number	PD-45A	PD-45B	PD-65A	PD-65B	RPD-65C	RPD-65D
Volt / Volt	CH1	5V, 0.4-5A	5V, 0.4-5A	5V, 0.4-7A	5V, 0.4-6.6A	12V, 0-5.8A	24V, 0-2.9A
	CH2	12V, 0.2-2.5A	24V, 0.2-1.8A	12V, 0.2-3.2A	24V, 0.2-2.6A	5V, 0-1.5A	5V, 0-1.5A
Dimension (mm)	127x76x28			127x76x42		127x76x29	

Model No.	Output Number	PID-250A	PID-250B	PID-250C	PID-250D
Volt / Volt	CH1	12V, 0-1.5A	24V, 0-0.8A	36V, 0-0.3A	48V, 0-0.7A
	CH2	5V, 0-5A	5V, 0-5A	5V, 0-5A	5V, 0-5A
Dimension (mm)	222x95x40				

45-125W Triple Output Industrial PCB Type

PT/RPT/PPT Series



PT-45
(3x3)



PT-65
(3x3)



PT-65B
(3x3)



RPT-65
(3x3)



PPT-125
(3x3)

Features

- Universal AC input/Full range 90~264VAC
- Built-in Active PFC function (PPT-125)
- Optional L-bracket and cover (RPT-65 Series)
- Low leakage current<1mA (RPT-65 Series)
- PWM control and regulated (PPT-125)
- Protection: Short Circuit/Overload/Over Voltage (Except for RPT Series)/Over Temp (Except for PT Series)
- 2 years warranty
- 3 years warranty (PPT-125)

Models

5"x3" Triple Output



Model No.	Output Regulation	PT-45A	PT-45B	PT-45C
Vout / Iout	CH1	5V, 0.4-3A	5V, 0.4-3A	5V, 0.4-3A
	CH2	12V, 0.2-2.5A	12V, 0.2-2.5A	15V, 0.2-2.3A
	CH3	-5V, 0-0.5A	-12V, 0-0.5A	-15V, 0-0.5A
Dimension (mm)		127x76x28		

Model No.	Output Regulation	PT-65A	PT-65B	PT-65C	PT-65D	PT-65DB
Vout / Iout	CH1	5V, 0.4-7A	5V, 0.4-7A	5V, 0.4-7A	5V, 0.5-5A	3.3V, 0-7A
	CH2	12V, 0.2-3.2A	12V, 0.2-3.2A	15V, 0.2-2.6A	12V, 0.2-4A	5V, 0.2-10A
	CH3	-5V, 0-0.7A	-12V, 0-0.7A	-15V, 0-0.7A	24V, 0.2-1.3A	12V, 0-1.2A
Dimension (mm)		127x76x42				

Model No.	Output Regulation	RPT-65E	RPT-65F	RPT-65G
Vout / Iout	CH1	12V, 0.18-5.8A	12V, 0.18-5.8A	24V, 0.09-2.9A
	CH2	5V, 0-1.5A	5V, 0-1.5A	5V, 0-1.5A
	CH3	-5V, 0-0.7A	-12V, 0-0.7A	12V, 0-0.7A
Dimension (mm)		127x76x29		

Model No.	Output Regulation	PPT-125A	PPT-125B	PPT-125C	PPT-125D
Vout / Iout	CH1	3.3V, 1-12.5A	5V, 1-14.38A	5V, 1-13.75A	5V, 1-8.75A
	CH2	5V, 0.8-10A	12V, 0.3-3.75A	15V, 0.25-3.13A	24V, 0.25-3.13A
	CH3	12V, 0.05-0.63A	-12V, 0.05-0.63A	-15V, 0.05-0.63A	12V, 0.05-0.63A
Dimension (mm)		127x76.2x34.6			

GST Series

18~350W Global Certified Industrial Energy Saving Adapter (Desktop Type)



Features

- **Global Certified**
- No load power consumption <0.015W <0.5W
- 450W peak power for 3 sec. (Only GST350)
- **Energy Efficiency Level VI**
- Complies with EISA 2007, DoE, NRECA, Korea-K-MEPS, AU/NZ-MEPS, EU ErP & CoC Version 5
- 3 pole IEC320-C14 AC Inlet (A-Type)
- 2 pole AC Inlet (B/E/V Type)
- Class 1 power unit (>40W)
- Fanless design with -30~+70°C wide range working temp.
- Protections: Short Circuit/Overload/Over Voltage/Over Temp. (>60W)
- Fully enclosed plastic case
- LED Indicator for power on
- Pass LPS (<60W)
- 3 years warranty
- Various DC plugs & accessories available (Refer to P.37)

Models



Model No.	GST15	GST25	GST40	GST60A	GST80A	GST90A
Vin	85~264VAC	85~264VAC	85~264VAC	80~264VAC	80~264VAC	80~264VAC
	5V, 0~3A	5V, 0~4A	5V, 0~4.3A	5V, 0~5A	3V, 0~6A	12V, 0~6.67A
	7.5V, 0~2A	7.5V, 0~2.33A	9V, 0~3.11A	7.5V, 0~3.34A	7.5V, 0~6A	15V, 0~6A
	9V, 0~2A	9V, 0~2.33A	12V, 0~3A	9V, 0~4.43A	9V, 0~6A	18V, 0~4.74A
	12V, 0~1.5A	12V, 0~2.06A	24V, 0~1.3A	12V, 0~3.34A	12V, 0~5A	24V, 0~1.75A
Vout./Iout	15V, 0~1.12A	15V, 0~1.66A	48V, 0~0.75A	15V, 0~2.67A	15V, 0~4A	48V, 0~1.87A
	18V, 0~1A	18V, 0~1.38A		18V, 0~2.22A	18V, 0~3.33A	
	24V, 0~0.75A	24V, 0~1.04A		24V, 0~1.67A	24V, 0~2.5A	
	28V, 0~0.66A	28V, 0~0.89A		48V, 0~0.84A	48V, 0~1.25A	
	48V, 0~0.375A	48V, 0~0.52A				

Charger: 30W / 45W / 60W Class I ~ II IEC320-C14 Charger ~ II IEC320-C4, D-Specific 2P, E-Typical 2P

Model No.	GST120A	GST160A	GST230A	GST280A	GST360A	GST360B
Vin	85~264VAC	85~264VAC	85~264VAC	85~264VAC	85~264VAC	85~264VAC
	12V, 0~8.5A	12V, 0~11.5A	12V, 0~15A	12V, 0~21A	12V, 0~27.5A	12V, 0~27.5A
	15V, 0~7A	15V, 0~9.6A	15V, 0~13.4A	15V, 0~17A	15V, 0~22.7A	15V, 0~22.7A
Vout./Iout	20V, 0~6A	20V, 0~8A	20V, 0~11A	20V, 0~13A	24V, 0~15A	24V, 0~15A
	24V, 0~5A	24V, 0~6.67A	24V, 0~9.2A	24V, 0~11.67A	30V, 0~10A	30V, 0~10A
	48V, 0~2.5A	30V, 0~4.44A	30V, 0~6.1A	48V, 0~5.84A	48V, 0~7.5A	48V, 0~7.5A
		48V, 0~3.34A	48V, 0~4.0A		53V, 0~6.53A	53V, 0~6.53A

15W/50W Triple Output Industrial Energy Saving Adaptor (Desktop Type)

GP Series

AC-DC Adaptor (GP Series)



GP25A
100-240V~25W



GP25B
100-240V~25W



GP50A
100-240V~50W

Features

- Universal AC input/Full range: 90-264VAC
- No load power consumption <0.1W
- Energy efficiency Level VI
- Complies with EISA 2007/DaE & EU ErP
- 25 $\rightarrow$ +70 $^{\circ}$ C wide range working temp.
- Class I power unit (with earth pin) for A type
- Class II power unit (without earth pin) for B type
- Fully enclosed plastic case
- LED indicator for power on
- Dual output available (Optional)
- 3 years warranty

Models

Triple Output



Model No.	Output Number	GP25-13A	GP25-13B	GP25-13E
Vout./Iout.	CH1	5V, 0.3-2.5A	5V, 0.3-2.5A	5V, 0.3-2.5A
	CH2	12V, 0.2-1.2A	12V, 0.2-1A	15V, 0.1-0.8A
	CH3	-5V, 0.1-0.3A	-12V, 0.1-0.3A	-15V, 0.1-0.3A

Model No.	Output Number	GP50A13A	GP50A13B	GP50A13E	GP50A51F (Optional)
Vout./Iout.	CH1	5V, 0-4A	5V, 0-4A	5V, 0-4A	16V, 0.4-2A
	CH2	12V, 0.3-2A	12V, 0.3-2A	15V, 0.3-1.5A	48V, 10-150mA
	CH3	-5V, 0.1-0.5A	-12V, 0.1-0.5A	-15V, 0.1-0.5A	-16V, 0.4-2A

(3A/5): A: IEC 320-C14 / (Class I), B: IEC 320-C3 / (Class II)

GSM Series

40-220W Medical Energy Saving Adaptor
(Desktop Type)



Features

- Universal AC input/Full range: 80-264VAC
- Medical safety approved (3MOPP)
- Suitable for BF application with appropriate system consideration(Except for A-Type)
- Extremely low leakage current
- No load power consumption <0.075-0.3W
- Energy efficiency VI (GSM06, GSM10/25 5-9V for Level V)
- Fully enclosed plastic case
- A-Type Class I power (with earth pin)
- B-Type Class II power(without earth pin)
- Comply with EISA 2007/Dell, NECan, AU/NZ MEPS, EU ErP and meet CoC Version 5
- Working temperature up to +70°C
- LED indicator for power on(Except for GSM06/12)
- Protection: Short Circuits/Overload/Over Voltage/Over Temp.
- 3 years warranty
- Various DC plugs & accessories available (Refer to P53)

Models



Model No.	GSM40	GSM60	GSM90
Volt / Out	5V, 0.1-5A	5V, 0.1-6A	12V, 0-6.67A
	2.5V, 0.1-5.34A	7.5V, 0.1-6A	15V, 0-6A
	9V, 0.1-4.45A	9V, 0.1-6A	18V, 0-4.74A
	12V, 0.1-3.34A	12V, 0.1-5A	24V, 0-3.75A
	15V, 0.1-2.67A	15V, 0.1-4A	48V, 0-1.87A
	18V, 0.1-2.22A	18V, 0.1-3.33A	
	24V, 0.1-1.67A	24V, 0.1-2.5A	
	48V, 0.1-0.84A	48V, 0.1-1.25A	
Dimension(mm)	125x50x31.5	125x50x31.5	145x50x32
	□=A / B (Desktop)	□=A / B (Desktop)	□=A / B (Desktop)

A: IEC320-C14 / Class I B: IEC320-C5 / Class II

Model No.	GSM120	GSM160	GSM220
Volt / Out	12V, 0-8.5A	12V, 0-11.5A	12V, 0-15A
	15V, 0-7A	15V, 0-9.6A	15V, 0-13.4A
	20V, 0-6A	20V, 0-8A	20V, 0-11A
	24V, 0-5A	24V, 0-6.67A	24V, 0-9.2A
	48V, 0-2.5A	48V, 0-3.34A	48V, 0-4.6A
Dimension(mm)	167x67x35	175x72x35	219x85x46
	□=A / B (Desktop)	□=A / B (Desktop)	□=A / B (Desktop)

□=A / B A: IEC320-C14 AC / Class I B: IEC320-C5 AC / Class II

5-60W Slim Industrial Energy Saving Adaptor (Wall Mounted Type)

GS/SGAS Series

AC-DC Adaptor (GS/SGAS Series)



Features

- Slim Type, occupy the power jack only
- Universal AC Input/Full range: 90-264VAC
- No load power consumption <0.075W-0.1W
- Energy efficiency VI
- Comply with EISA 2007/DuE, EU ErP, CoC Version 5
- -30~+70°C wide range working temp.
- Protection: Short Circuit/Overload/Over Voltage
- Pass LPS
- 3 years warranty
- Various DC plugs & accessories available (Refer to P.52)

Models



Model No.	GS050-USB	GS050E-USB	GS06U	GS06E
Volt / Unit	5V, 0-1A	5V, 0-1A	5V, 0-1A	5V, 0-1A
			7.5V, 0-0.8A	7.5V, 0-0.8A
			9V, 0-0.66A	9V, 0-0.66A
			12V, 0-0.5A	12V, 0-0.5A
			15V, 0-0.4A	15V, 0-0.4A
			18V, 0-0.33A	18V, 0-0.33A
			24V, 0-0.25A	24V, 0-0.25A
			48V, 0-0.125A	48V, 0-0.125A

Model No.	SGAS06	SGAS15	SGAS60
Volt / Unit	5V, 0-1A	5V, 0-2.4A	5V, 0-6A
	7.5V, 0-0.8A	9V, 0-1.66A	12V, 0-1A
	9V, 0-0.66A	12V, 0-1.25A	15V, 0-4A
	12V, 0-0.5A	15V, 0-1A	24V, 0-2.5A
	15V, 0-0.4A	24V, 0-0.625A	48V, 0-1.25A
	24V, 0-0.25A		
	48V, 0-0.125A		

Q: U / E Class II — U: American 2P E: European 2P
Q: A / B / U / E Class I — A: IEC320/C19 Class II — B: IEC320/C9 U: American 2P E: European 2P

* The pricing and performance of NCE series are better than GS/SGAS series.
It is highly recommended to use NCE series for new project.

SGA Series

12-60W Industrial Energy Saving Adaptor
(Wall-Mounted Type)



Features

- Universal AC Input/Full range: 10-264VAC
- No load power consumption <0.075W-0.15W
- Energy efficiency >91%
- -20~60°C wide range working temp.
- 2 pole US/EU type plug, Class II power unit
- Comply with (ISA 2007/DoC, EU ErP)
- Protection: Short-Circuit/Overload/Over Voltage
- Fully enclosed plastic case
- Pass EMI
- LED indicator for power on (Only SGA60)
- 1 years warranty
- Various DC plugs & accessories available (Refer to P.32)

Models



Model No.	SGA12	SGA25	SGA40	SGA60
Input	100-264VAC	100-264VAC	100-264VAC	100-264VAC
Output	5V, 2.4A	5V, 4A	5V, 0-5A	5V, 0-6A
	7.5V, 2.4A	7.5V, 2.93A	9V, 0-4.44A	7.5V, 0-6A
	9V, 1.6A	9V, 2.77A	12V, 0-3.33A	9V, 0-5.5A
	12V, 1.33A	12V, 2.08A	15V, 0-2.56A	12V, 0-5A
	15V, 1A	15V, 1.66A	18V, 0-2.22A	15V, 0-4A
	18V, 0.8A	18V, 1.38A	24V, 0-1.67A	18V, 0-3.33A
	24V, 0.666A	24V, 1.04A	48V, 0-0.84A	24V, 0-2.5A
	24V, 0.5A	48V, 0.52A		48V, 0-1.25A
	48V, 0.25A			

① C: China / E: American 2P / E: European 2P

*USB Type: 5V output only

- ② The pricing and performance of NOE-series are better than SGA series
- ③ It is highly recommended to use NOE-series for new project

12~40W AC Interchangeable Industrial Adaptor (Wall Mounted Type)

GE Series



GE2: 220V~0.5A/110V~0.5A
GE30/40/50: 100~240V~0.5A
GE30: 100~240V~0.5A

AC-DC Adaptor/GE Series

Features

- Universal AC Input/Full range 90~264VAC
- Interchangeable AC plugs (plug kit sold separately)
- No load power consumption <0.075W
- Energy efficiency VI
- Comply with EISA 2007/DoE, EU ErP
- Class II power (without earth pin)
- Protection: Short Circuit/Overload/Over Voltage
- Fully enclosed plastic case
- LED indicator for power on
- Pass IP5
- 2 years warranty
- Various DC plugs & accessories available (refer to P.52)

Models



Model No.	GE12I	GE18I	GE24I	GE30I	GE40I
Vout / Iout	1V, 0~2A	5V, 0~2.4A	5V, 0~3A	12V, 0~2.5A	5V, 0~4A
	7.5V, 0~1.33A	7.5V, 0~1.73A	7.5V, 0~2A	15V, 0~2A	7.5V, 0~2.66A
	9V, 0~1.33A	9V, 0~2A	9V, 0~2.22A	18V, 0~1.66A	9V, 0~3.3A
	12V, 0~1A	12V, 0~1.5A	12V, 0~2A	24V, 0~1.25A	12V, 0~3.3A
	15V, 0~0.8A	15V, 0~1.2A	15V, 0~1.6A		15V, 0~2.7A
	18V, 0~0.83A	18V, 0~1A	18V, 0~1.33A		18V, 0~2.2A
	24V, 0~0.675A	24V, 0~0.75A	24V, 0~1A		24V, 0~1.67A
		48V, 0~0.375A	48V, 0~0.5A		36V, 0~1.11A
					48V, 0~0.83A

Interchangeable AC Plug Specifically for GE Series

AC Plug Type and Order No.					
AC Plug-Alt (for Europe)	AC Plug-Alt (for EU 2-pin)	AC Plug-UK (for UK 3-pin)	AC Plug-EU (for EU 2-pin)	AC Plug-IE (for IEC 3-pin)	AC Plug-Alt and AC Plug-Mult (for AC Plug-Mult and AC Plug-Mult)
Alt Type	Alt Type	UK Type	EU Type	IE Type	Mult Four Type

Note: The main body unit and AC plug should be ordered separately.
The main body needs to be used along with any one of the AC plug.

- The pricing and performance of NDE series are better than GE series.
It is highly recommended to use NDE series for new project.

GEM Series

5-60W AC Interchangeable Medical Adaptor (Wall-Mounted Type)



GEM01
GEM02
GEM03
GEM04
GEM05
GEM06



Features

- Universal AC Input/Full range(80-264VAC)
- Interchangeable AC plug (Plug kit sold separately)
- Medical safety approved (2xMOPP)
- Extremely low leakage current
- Suitable for **BP** application with appropriate system consideration
- No load power consumption <0.075-0.15W
- Energy efficiency Level VI(Level V for GEM00k)
- Comply with EISA 2007/DoE and EU ErP
- Class II power (without earth pin)
- 20~+70°C wide range working temp.
- Protections: Short Circuit/Overload/Over Voltage
- Fully enclosed plastic case
- IP21/IP22 Level
- 3 years warranty
- Various DC plugs & accessories available (Refer to H52)

Models



Model No.	GEM01	GEM121	GEM131	GEM301	GEM401	GEM601
	USB-5V, 0-1.2A	USB-5V, 0-2.4A	5V, 0-3A	5V, 0-4A	5V, 0-5A	5V, 0-6A
	PT1-5V, 0-1.2A	PT1-5V, 0-2.4A	9V, 0-2A	7.5V, 0-3.33A	9V, 0-4A	7.5V, 0-6A
	6V, 0-1A	7.5V, 0-1.0A	12V, 0-1.5A	9V, 0-3.33A	12V, 0-3.33A	9V, 0-5.5A
	2.5V, 0-0.8A	9V, 0-1.33A	15V, 0-1.2A	12V, 0-2.5A	15V, 0-2.66A	12V, 0-4.5A
Vout / Iout	9V, 0-0.66A	12V, 0-1A	18V, 0-1A	15V, 0-2A	18V, 0-2.22A	15V, 0-4A
	12V, 0-0.5A	15V, 0-0.8A	24V, 0-0.75A	18V, 0-1.66A	24V, 0-1.66A	18V, 0-1.33A
	15V, 0-0.4A	18V, 0-0.66A	48V, 0-0.375A	24V, 0-1.25A	48V, 0-0.83A	24V, 0-2.5A
	18V, 0-0.33A	24V, 0-0.5A		48V, 0-0.625A		48V, 0-1.25A
	24V, 0-0.25A	48V, 0-0.25A				
Dimension (mm)	71.9x30x48.5			75.5x39.1x56.2		

*USB Type: 5V output only

Interchangeable AC Plug Specifically for GEM Series

AC Plug TYPE AND SYMBOL				
AC Plug AUS	AC Plug UK3	AC Plug EU2	AC Plug US2	AC Plug MIX2
Australian Type	UK Type	European Type	U.S. Type	Mixed four Type

Note: The main body unit and AC plug should be ordered separately. The main body needs to be used along with any one of the AC plug.

- The pricing and performance of HGE series are better than GEM series. It is highly recommended to use HGE series for new project.

5-60W Medical Energy Saving Adaptor (Wall-Mounted Type)

GSM Series

AC-DC Adapter-GSM Series



GSM06V 1-Type



GSM12V 0-Type USB-Type



GSM06A25V 0-Type 1-Type



GSM06V 1-Type 0-Type



GSM06V 0-Type 1-Type

Features

- Universal AC input/full range: 80-254VAC
- **Medical safety approved (ZiHOPP)**
- Suitable for **BF** application with appropriate system consideration (Except for A-Type)
- Extremely low leakage current
- No load power consumption <0.025-0.3W
- Energy efficiency Level VI (GSM06/12/25: 5-99 for Level VI)
- Fully enclosed plastic case
- Class I (with earth Pin): A-Type
- Class II (without earth Pin): 0/1/0-Type
- Comply with TISA 2007/DoE, NRCap, AUNZ, NEPS, EU ErP and meet CoC Version 3
- High operating temperature up to +70°C
- LED indicator for power on (Except for GSM06/12)
- Protection: Short Circuit/Overload/Over Voltage/Over Temp.
- **3 years warranty**
- Various DC plugs & accessories available (Refer to P33)

Models



Model No.	GSM06V	GSM12V	GSM18V	GSM25V	GSM36V	GSM60V
	5V, 0~1.2A	*USB: 5V, 0~2.4A	5V, 0~3A	5V, 0~4A	5V, 0~4.5A	5V, 0~6A
	6V, 0~1A	P11: 5V, 0~2.4A	7.5V, 0~2A	7.5V, 0~2.93A	7.5V, 0~4.32A	7.5V, 0~6A
	7.5V, 0~0.8A	7.5V, 0~1A	9V, 0~2A	9V, 0~2.72A	9V, 0~4A	9V, 0~5.5A
	9V, 0~0.66A	9V, 0~1.33A	12V, 0~1.5A	12V, 0~2.08A	12V, 0~3A	12V, 0~4.5A
Output	12V, 0~0.5A	12V, 0~1A	15V, 0~1.2A	15V, 0~1.66A	15V, 0~2.4A	15V, 0~4A
	15V, 0~0.4A	15V, 0~0.8A	18V, 0~1A	18V, 0~1.36A	18V, 0~2A	18V, 0~3.33A
	18V, 0~0.33A	18V, 0~0.66A	24V, 0~0.75A	24V, 0~1.04A	24V, 0~1.5A	24V, 0~2.5A
	24V, 0~0.25A	24V, 0~0.5A	48V, 0~0.375A	48V, 0~0.52A	48V, 0~0.75A	48V, 0~1.25A
		48V, 0~0.25A				
Dimension (mm)	66x32x42.5	67.2x27.4x45.5	79x54x33	79x54x33	79x54x33	75.5x32x47.5
	□-U/E (Wall-mounted)	□-U/E (Wall-mounted)	□-B (Desktop) U/E (Wall-mounted)	□-B (Desktop) U/E (Wall-mounted)	□-B (Desktop) U/E (Wall-mounted)	□-U/E (Wall-mounted)

U: American 2P E: European 2P B: IEC320-C8

*USB Type: 5V output only

* The pricing and performance of HGE series are better than GSM-U/E series.
It is highly recommended to use HGE series for case project.

NGE Series

12-90W AC Interchangeable Medical/ITE/Home Energy Saving Adaptor (Wall-Mounted Type)



NGE12
NGE18
NGE30
NGE45
NGE65
NGE90



Features

- Interchangeable AC plugs (Originally with folded US plug, UK, EU, AU convertible)
- On plug (Pilot) interchangeable
- Universal AC input/Full range 50-264VAC
- ITE 00000-1, Medical 00000-1, household 00000-3 safety approved
- Extremely low leakage current, suitable for III application with appropriate system consideration
- Ultra slim design (23-35mm)
- No load power consumption <0.075-0.1W
- Energy efficiency Level III
- Complies with EISA 2007/DuG, EU ErP & CoC Version 5
- 30~+70°C wide range working temp.
- Protection: Short Circuit/Overload/Over Voltage
- IP23 Level
- 3 years warranty
- Various DC plugs & accessories available (Refer to P32)

Models



Model No.	NGE12	NGE18	NGE30	NGE45	NGE65	NGE90
Input/Output	5V, 0-2.4A	5V, 0-3A	5V, 0-4A	5V, 0-5.53A	5V, 0-7A	12V, 0-6A
	9V, 0-1.53A	9V, 0-2A	9V, 0-3.33A	9V, 0-4.5A	9V, 0-5.56A	15V, 0-6A
	12V, 0-1A	12V, 0-1.5A	12V, 0-2.5A	12V, 0-2.75A	12V, 0-4.88A	18V, 0-5A
	15V, 0-0.8A	15V, 0-1.2A	15V, 0-2A	15V, 0-3A	15V, 0-4.34A	24V, 0-3.75A
	18V, 0-0.63A	18V, 0-1A	18V, 0-1.66A	18V, 0-2.5A	18V, 0-3.62A	48V, 0-1.65A
	24V, 0-0.625A	24V, 0-0.75A	24V, 0-1.25A	24V, 0-1.88A	24V, 0-2.71A	55V, 0-1.64A
			48V, 0-0.63A	48V, 0-0.54A	48V, 0-1.38A	
Dimension (mm)	48x28x55		62x30x65		62x30x85	

*7pin output connectors: PL1 and USB available for NGE12 & 18

Interchangeable AC Plug Specifically for NGE Series

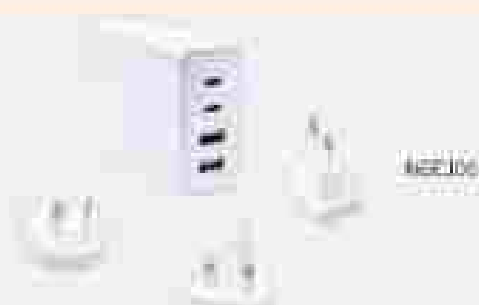
AC Plug Type and Order No.					
AC Plug AU4	AC Plug UK4	AC Plug EU4	AC Plug M44		
Australian Type	UK Type	European Type	M44 Type		

The NGE series is under development, expected to be launched in Q4 of 2023

100W High Reliable 4-Port USB PD Type-C Adaptor

NGE Series

AC/DC Adaptor NGE Series



Features

- Interchangeable AC plug
(Originally with folded US plug, UK, EU, AU convertible)
- CE plug (Non-interchangeable)
- Universal AC input/Full range 90-250VAC
- Global Certified
- USB 3C24, 4-port independent output;
supports charging of 4 devices at the same time with max.
total wattage 100W
- PD/QC 3.0 Intelligent Short Detection ON/OFF 11V/15V/20V
- 100W USB-C to C charger cable included
- Protection: Short Circuit/Overload/Over Voltage/Over Temp.
- Comply with EISA 2007/DoE, EU RoP, energy efficiency level VI
- No load power consumption <0.3W
- Suitable for charging laptops, tablets, mobile phones, earphones
- Compact size: 55.5x30x12 mm
- 3 years warranty

Recommended Configuration



For 1 Port

18W	18W	100W	100W
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For 2 Ports

18W	18W	65W	35W	80W	10W	80W	18W	80W	18W	80W	10W
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For 3 Ports

65W	18W	18W	65W	18W	18W	55W	30W	18W	55W	30W	18W
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For 4 Ports

45W	30W	12W	12W
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ATTN: NGE 100 Series is under development, expected to be launched in Q4 of 2021.

Application



OWA Series

60-200W IP57 Moistureproof Industrial Adaptor



Features

- IP57 design with internal encapsulated (PC connector not excluded)
- No load power consumption <0.15W
- Energy efficiency Level VI
- 40-75°C wide operating temperature
- E-Type: Comply with EU ENEC meet CoC-Version 5
- U-Type: Comply with EISA 2007/DoE & NRCan
- Class II power (without earth pin)
- Fanless design, free air convection
- Fully enclosed plastic case
- Suitable for the electronic applications at highly dirty or damp environment
- Protections: Short Circuit/Overload/Over Voltage/Over Temp.
- 5 years warranty

Models



Model No.	OWA-60	OWA-90	OWA-120	OWA-200
Vin	90-264VAC	90-264VAC	E-Type: 180-264VAC ; U-Type: 90-264VAC	
Vout / Iout	12V, 0-5A	12V, 0-7.5A	E-Type: 12V, 0-9.6A ; U-Type: 12V, 0-10A	E-Type: 12V, 0-15A
	15V, 0-4A	15V, 0-6A	U-Type: 12V, 0-10A	U-Type: 12V, 0-15A
	20V, 0-3A	20V, 0-4.5A	15V, 0-8A	20V, 0-10A
	24V, 0-2.5A	24V, 0-3.75A	20V, 0-6A	24V, 0-8.3A
	30V, 0-2A	30V, 0-3A	24V, 0-5A	30V, 0-5.55A
	36V, 0-1.67A	36V, 0-2.5A	30V, 0-4A	42V, 0-4.75A
	42V, 0-1.5A	42V, 0-2.15A	36V, 0-3.4A	48V, 0-4.17A
	48V, 0-1.25A	48V, 0-1.88A	42V, 0-2.9A	54V, 0-3.71A
	54V, 0-1.12A	54V, 0-1.67A	48V, 0-2.5A	
			54V, 0-2.3A	
Dimension (mm)	130x53x35	171x63x37.5	191x63x37.5	195x68x39.5

CS / U E European 2P U American 2P

Complete Supplementary Measures - Selection of Changeable DC Plug

- Flexible solution for small quantity
- Easy modification for different size of DC plug

Off-the-shelf and no MOQ

If you can't find the required DC plug in this table, please contact us for more details.

DC Plug Connector Selection Guide

Adaptor	Changeable DC Plug	Assembly Illustration (Example)
Model No. OCTB-4C CM800-4C GCM800-4C OCTB-4H SGA32-4C SGA12-4H P100 CM800-4C	Ordering No. DC PLUG-P1J-P1J 2.5x5.5x3.5mm DC PLUG-P1J-P1M 2.5x5.5x11mm DC PLUG-P1J-P1L 2.5x5.5x9.5mm DC PLUG-P1J-P1A 0.3x2.2x11mm DC PLUG-P1J-P1B 1.7x4.0x11mm DC PLUG-P1J-P1C 1.7x4.2x11mm DC PLUG-P1J-P1A 3.4x5.5x11mm DC PLUG-P1J-P1B 4.4x5.5x11mm DC PLUG-P1J-P1C 5.5x5.4x11mm DC PLUG-P1J-P1M 2.5x5.5x11mm DC PLUG-P1J-P1M 2.5x5.5x11mm DC PLUG-P1J-P1M 2.5x5.5x11mm DC PLUG-P1M-P1M 2.5x5.5x11mm DC PLUG-P1J-R10 4XCON KPTX-0P DC PLUG-P1J-R1B 4XCON KPTX-0P DC PLUG-P1A-E1B 5PIN DIN	
Model No. G31N0-100 G31N0	Ordering No. DC PLUG-P1M-P1J 2.5x5.5x11mm DC PLUG-P1M-P1L 2.5x5.5x9.5mm DC PLUG-P1M-R1B 4XCON KPTX-0P	
Model No. OCT100-20H SGA100-4C CM800-2002	Ordering No. DC PLUG-R10-P1J 2.5x5.5x11mm DC PLUG-R10-P1M 2.5x5.5x11mm	

Note: Please refer to MEAN WELL adaptor specifications for DC plug rating and compatibility.

UMP Series

400W Configurable Modular Power



UMP-400
standard 100mm



ATC GROUPS

Features

- Universal AC Input/Full range: 90~264VAC
- Ultra Slim 1U profile
- Fanless design, 400W free air convection
- Flexible output channels with maximum 4 outputs
- Master output channel for 24V/48VDC
- 3V/12V/15V/24V DC-DC modules configurable
- No minimum load required
- Protection: Short Circuit/Overload/Over Voltage/Over Temp.
- 30~+70°C wide operating temperature
- LED indicator for power on
- 3 years warranty

Order Information

UMP-400-24 X X X



Example:

UMP-400-24 B E I



Model No.	Vout / Iout	Eff.
UMP-400-24	24V, 0~16.7A	88.5%
UMP-400-48	48V, 0~8.3A	88.5%

* Cannot be operated by users, please consult with MEAN WELL for better safety selection.

* Channel 2, 3, 4 are powered by Channel 1 (disconnected), NID05/10/15/24 is only suitable for UMP-400-48

* Only UMP-400-24 can be configured with Negative output voltage

DC-DC Model No.	Photo	Vout	Iout
A NID35-05		5V	3.5A
B NID35-12		12V	2.9A
C NID35-15		15V	2.4A
D NID35-24		24V	1.5A
E NID05-05		5V	6.5A
F NID05-12		12V	4.9A
G NID05-15		15V	4.3A
H NID05-24		24V	2.7A
I NID100-05		5V	8A
J NID100-12		12V	6A
K NID100-15		15V	5.2A
L NID100-24		24V	3.4A
M NID15-05		5V	1.5A
N NID15-12		12V	2.9A
O NID15-15		15V	2.6A
P NID05-05		5V	6.5A
Q NID05-12		12V	4.9A
R NID05-15		15V	4.3A
S NID100-05		5V	8A
T NID100-12		12V	6A
U NID100-15		15V	5.2A

650W/1200W Configurable Modular Power

NMP Series



Features

- Universal AC input, Full range: 90-264 VAC
- Medical approval (2*MDPP)
- Suitable for **BF** application with appropriate system consideration (Touch current < 100μA/26VTRC)
- 1U low profile
- Output and input programmable
- Built-in parallel function
- Remote ON-Off/Auxiliary DC Output / Over Temp. Alarm/DC OK
- Cooling by thermostatically controlled fan with fan alarm function
- Protection: Short Circuit/Overload/Over Voltage/Over Temperature for All Output Modules
- 3 years warranty



NMS-240: 1-SLOT isolated single output (240W max.)

Item Code	Vout / Iout	VOC (V)
C	5V, 0-36A	3-8V
E	12V, 0-20A	6-15V
H	24V, 0-10A	15-30V
K	48V, 0-5A	30-53V

NMS-240: 1-SLOT isolated dual output (240W max.)

Item Code	Vout / Iout	VOC (V)
D	30V, 0-5A	3-30V
	30V, 0-5A	3-30V

Parallel Connection Accessory

PAR-009	for NMS-020, 1 units
PAR-010	for NMS-040, 2 units
NMS-240-P2/P3/P4/P5/P6	for parallel 240W output (240W/5A max.)

Series Connection Accessory

SAS-005	for 2 slot connected (1200W max.)
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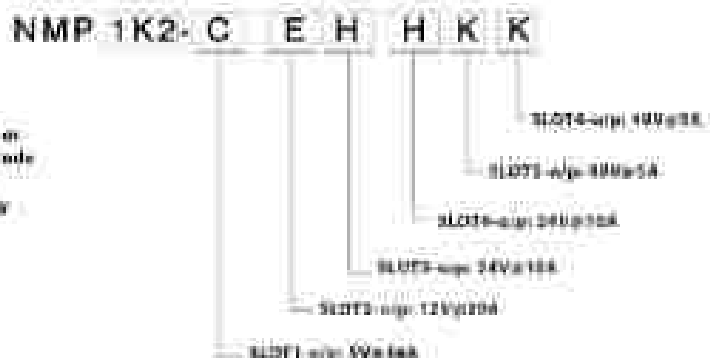
Blank Plate Accessory

Blank NMS240	
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Output Configuration Guide



Example:



MP450/650/1K0

450-1000W Configurable Modular Power



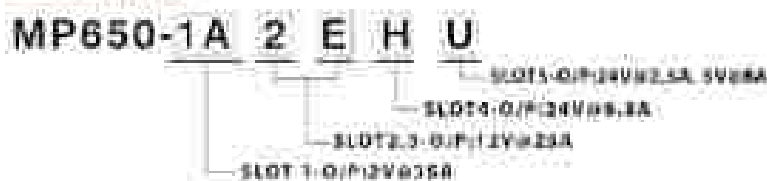
Features

- Universal AC input/Full range: 85-264 VAC
- Various output configuration is selectable
- Built-in active PFC compliance to EN61000-3-2
- Built-in constant current limiting circuit for single output modules
- Remote control on each output module
- Remote sense on each single output module (MS-75-360)
- Protections: Short Circuit/Overload/Over Voltage for all modules
- Parallel function (MS-210/300/360)
- Marginal control function (MS-210/360)
- Cooling by built-in OC fan with fan alarm function
- Additional 12V/0.1A auxiliary output for remote control
- 3 years warranty

Output Configuration Guide



Example:



UMP vs NMP vs MP Series

Series	Wattage	Slots	Output Mod.	Safety	Dimension (LxWxH)	Warranty
UMP	450W	4 channels 5 slots	MD-35/65/100	UL94V-0	250x85x27	3 years
NMP	650W 1000W	4 slots 6 slots	NMS-300 NMD-300	UL94V-0 (NMP) UL94V-0 (NMD)	250x89x41 250x127x41	3 years
MP	450W 650W 1000W	5 slots 5 slots 7 slots	MS-75 MS-150 MS-210 MS-300 MS-360 MD-100	UL94V-0	254x127x40.5 278x127x40.5 278x177.8x41.5	3 years

MS-75: 1-SLOT single output (75W max.)

Item Code	Vout (V)	Iout (A)	Pout (W)	Vout (V)
A	1.1V, 0-10A	17.5A	3.6-4W	
B	5V, 0-1.5A	17.5A	4-6W	
H	1.2V, 0-5.5A	7.5A	9-13.2W	
D	1.8V, 0-3.5A	5.2A	13.2-16.8W	
F	2.4V, 0-1.3A	3.7A	20-28.4W	
G	48V, 0-1.6A	1.6A	40-17V	

MS-150: 1-SLOT single output (150W max.)

Item Code	Vout (V)	Iout (A)	Pout (W)	Vout (V)
A	1V, 0-2.5A	30A	1.8-2.5W	
B	1.1V, 0-2.5A	30A	3.6-4W	
C	1V, 0-2.5A	30A	4-6W	
D	2.1V, 0-1.6A	20.7A	6-9W	
E	1.2V, 0-1.5A	15A	8-13.2W	
F	1.8V, 0-1.6A	11.5A	13.2-16.8W	
G	18V, 0-5.5A	8.6A	18.8-20V	
H	24V, 0-5.5A	7.5A	20-28.4W	
I	27V, 0-3.8A	6.7A	25-37V	
J	33V, 0-4.7A	5.6A	30-40V	
K	48V, 0-1.2A	3.88A	40-17V	

MS-210: 1-SLOT parallelable single output (210W max.)

Item Code	Vout (V)	Iout (A)	Pout (W)	Vout (V)
1A	1V, 0-2.5A	38.5A	1.8-2.5W	
1B	1.1V, 0-3.5A	38.5A	3.6-4W	
1C	1V, 0-3.5A	38.5A	4-6W	
1D	2.1V, 0-2.6A	31.2A	6-9W	
1E	1.2V, 0-1.5A	20.7A	8-13.2W	
1F	1.8V, 0-1.6A	16.1A	13.2-16.8W	
1G	18V, 0-11.6A	11.6A	18.8-20V	
1H	24V, 0-8.75A	10.7A	20-28.4W	
1I	27V, 0-7.8A	9A	25-37V	
1J	33V, 0-6.4A	7.4A	30-40V	
1K	48V, 0-4.4A	5.1A	40-17V	

MS-300: 2-SLOT parallelable single output (300W max.)

Item Code	Vout (V)	Iout (A)	Pout (W)	Vout (V)
2A	1V, 0-10A	17.5A	1.8-2.5W	
2B	1.1V, 0-10A	17.5A	3.6-4W	
2C	1V, 0-10A	17.5A	4-6W	
2D	2.1V, 0-6.6A	6.6A	6-9W	
2E	1.2V, 0-2.5A	28A	8-13.2W	
2F	1.8V, 0-2.6A	23A	13.2-16.8W	
2G	18V, 0-16.1A	16.1A	18.8-20V	
2H	24V, 0-12.5A	14.6A	20-28.4W	
2I	27V, 0-11.2A	13.8A	25-37V	
2J	33V, 0-8.7A	10.3A	30-40V	
2K	48V, 0-6.1A	7.2A	40-17V	

MS-360: 2-SLOT parallelable single output (360W max.)

Item Code	Vout (V)	Iout (A)	Pout (W)	Vout (V)
3A	1V, 0-10A	60A	1.8-2.5W	
3B	1.1V, 0-10A	60A	3.6-4W	
3C	1V, 0-10A	60A	4-6W	
3D	2.1V, 0-6.6A	33.2A	6-9W	
3E	1.2V, 0-3.0A	34.5A	8-13.2W	
3F	1.8V, 0-3.4A	27.8A	13.2-16.8W	
3G	18V, 0-30.6A	30.6A	18.8-20V	
3H	24V, 0-15A	17.5A	20-28.4W	
3I	27V, 0-13.4A	13.5A	25-37V	
3J	33V, 0-11A	12.7A	30-40V	
3K	48V, 0-7.5A	6.7A	40-17V	

MD-100: 1-SLOT isolated dual output (100W max.)

Item Code	Vout (V)	Vout (V)
A	4V, 0-10A	4.75-5.2V
B	5V, 0-8A	4.75-5.2V
C	5V, 0-10A	4.75-5.2V
D	12V, 0-5.5A	11.4-12.2V
E	18V, 0-10A	4.75-5.2V
F	18V, 0-4.7A	14.2-15.2V
G	24V, 0-5.5A	22.8-24.4V
H	24V, 0-10A	4.75-5.2V
I	24V, 0-6.6A	22.8-24.4V
J	12V, 0-4.5A	11.4-12.2V
K	10V, 1-1A	11.4-12.2V
L	12V, 0-6.6A	11.4-12.2V
M	18V, 1-4.7A	14.2-15.2V
N	18V, 0-4.5A	14.2-15.2V

* Full load, 25°C, 40°C maximum efficiency 10-20%
Average input power should not exceed the rated power

Parallel Connection Accessory

PAP-001 (For MS-75, 2 units)	
PAP-002 (For MS-150, 3 units)	
PAP-003 (For MS-210, 2 units)	
PAP-004 (For MS-210, 3 units)	
PAP-005 (For MS-210, 4 units)	
PAP-006 (For MS-210, 5 units)	
PAP-007 (For MS-300, 2 units)	
PAP-008 (For MS-300, 3 units)	

Series Connection Accessory

FAS-001 (For 1-unit module MS-75-150, MS-210)	
FAS-002 (For 2-unit module MS-210)	
FAS-003 (For 3-unit module MS-210)	
FAS-004 (For 3-unit module MS-300)	

* Please use ATC-001050 series module, ATC-001050L-1... etc. as the main unit. For more detail information about isolated mode, please refer to the user manual.

* Please refer to the user manual for more detail information about parallel connection and the related safety. About more connection, please contact us or your local ATC agent, and thank for your inquiry.

19" Rack Power

1000-2400W



Features

- Universal AC input/full range: 90-264VAC
- Built-in active PFC function
- Built-in auxiliary power
- Protection: Short Circuit/Overload/Over Voltage/Over Temp.
- Forced air cooling by built-in DC fan
- High power density up to 23W/inch³
- 1U low profile (41mm height)
- Output voltage and constant current level programmable
- Active current sharing, max. of 4 racks can be operated in parallel
- Max. parallel power: RCP-1000: 8kW, RCP-1500: 24kW, RCP-2000: 30kW
- Built-in remote ON/OFF control & remote sense function
- Hot swap support
- I²C serial data bus selectable; Built-in PMBus serial communication
- AC OK and DC OK signal output
- 3 years warranty

Order Information

Rectifier:

RCP-1000-12-C
 1: 12V/0-60A
 2: 24V/0-40A
 3: 48V/0-21A
 Output voltage: 12V/24V/48V

Rectifier:

RCP-1000-12-C
 1: Standard model, PMBus protocol
 2: Optional model, CMBus protocol
 Output voltage: 12V/24V/48V

Rectifier:

RCP-2000-12
 Output voltage: 12V/24V/48V

Rack Shelf:

RCP-1U-1
 1: AC input (IEC320-C20)
 2: Terminal block

Rack Shelf:

RHP-1U-1-A
 1: For RCP-1000
 2: AC input (IEC320-C14)
 3: Terminal block

Rack Shelf:

RCP-1U-1-CMU1
 1: CMBus with RHP-CMU1
 2: without RHP-CMU1
 3: AC input (IEC320-C20)
 4: Terminal block

Models



Model No.	RCP-1000	RCP-1500	RCP-2000
Input	12V, 0-60A	12V, 0-125A	12V, 0-100A
Output	24V, 0-40A	24V, 0-67A	24V, 0-80A
	48V, 0-21A	48V, 0-33.5A	48V, 0-42A
Dimension (mm)	295x127x41 RCP-1U: 483.5x350.8x44	300x83x41 RHP-1U: 440x355x44	295x127x41 RCP-1U: 483.5x350.8x44

CMU2 Multi-Industry General Purpose Smart Controller

19" Rack Power

CMU2 Smart Controller



Standalone type
Model: CMU2-000000000



Rack-mountable
Model: CMU2-000000000



Features

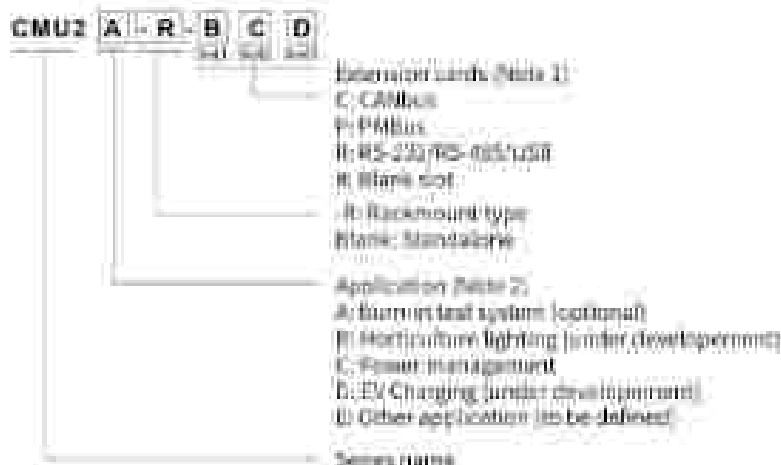
- Integration on system power and power management
- 2 models in 3U 19-inch rackmount and standalone configurations
- 7" TFT LCD touch panel and buttons for easy on-site operation
- Ethernet port for on-site or remote monitoring, controlling over the system
- Support PHILIP, CANbus & RS-485, RS-232 communication protocols
- Four user programmable relay outputs for conventional remote monitoring or alarming
- 5 years warranty

Description



CMU2 is a fully digitalized smart controller that can execute tasks of monitoring and controlling over power system. CMU2 implements a 7" LCD touch panel to achieve intuitive operation, and developed a brand new web monitoring page for faster and smarter management. CMU2 not only being used to monitor the operating parameters and data of PSUs, such as output voltage, output current, internal temperature, fan rpm, series number and firmware version, but also can be used to adjust output voltage and current. In addition, it can remotely control single PSU or entire power system through LAN or internet.

Order Information



GC Series

30~326W Portable Green Charger



Features

- Built-in active PFC function (Except for GC300)
- Class II power (Without earth pin, GC300 Series)
- Class I power (With earth pin, GC120~330 Series)
- Cooling by free air convection
- 2 pole AC inlet IEC320-C8 (GC300 Series)
- 3 pole AC inlet IEC320-C14 (GC120~330 Series)
- No load power consumption<0.5~1W
- Protection: Short Circuit/Overload/Over Voltage/Over Temp.
- 2 color LED indicator for charging status
- Fully enclosed plastic case
- 2 years warranty

Models



Model No.	GC300-P1J	GC120Axx	GC160Axx	GC220Axx	GC330Axx-C4P
Vin	90~264VAC	85~264VAC	85~264VAC	90~264VAC	90~264VAC
	4.2V, 0~4A	11.6V, 0~7.5A	11.6V, 0~10A	11.6V, 0~11.5A	4E3V, 0~8A
	5.6V, 0~3.00A	27.2V, 0~4.42A	27.2V, 0~1.85A	27.2V, 0~8A	14.4V, 0~6A
	7.2V, 0~5A	54.4V, 0~2.21A	54.4V, 0~2.95A	54.4V, 0~4A	
	8.4V, 0~3A				
Vout / Iout	14.3V, 0~2.00A				
	16.8V, 0~1.8A				
	28.6V, 0~1.04A				
Dimension (mm)	100x67x36	167x67x35	175x72x35	210x85x46	220x95x46

C=EU / E
R7B / AD1 / C4P

IEC320-C8, U: American 2P, E: European 2P
R7B: 4 pin power din, AD1: Anderson connector, C4P: 4 pin extension cord

120-360W Portable & Programmable Fanless Charger

ENP/ENC Series

Battery Charger-ENP/ENC Series



ENP-120/180/240/360
(Power)



ENC-120/180/240/360
(Charge)



■ ENP Features

- Universal AC input/Full range: 90-264VAC
- **Energy efficiency Level VI**
- No load power consumption<0.15~0.5W
- Comply with EISA 2007/DoE, NRCan, EU ErP
- 125% peak load capability
- **Fanless design**, free air convection
- **Protections**: Short Circuit/Overload/Over Voltage/Over Temp.
- 3-years warranty

■ ENC Features

- Universal AC input/Full range: 90-264VAC
- Can charge lead-acid batteries and lithium batteries
- Built-in 3 stage **default charging curve**, programmable by SBP-001 ([Refer to P&A](#))
- **Fanless design**, free air convection
- Built-in temperature compensation function
- **Protections**: Short Circuit/Over Voltage/Over Temp./Battery Under voltage/Battery Overvoltage/Battery Reverse Polarity Protection
- 3-years warranty

■ Models



Model No.	ENP-120	ENP-180	ENP-240	ENP-360
Vout / Iout	13.8V, 0~6.7A	13.8V, 0~13A	13.8V, 0~17.4A	13.8V, 0~26A
	27.6V, 0~4.5A	27.6V, 0~4.5A	27.6V, 0~8.7A	27.6V, 0~13A
	55.2V, 0~2.2A	55.2V, 0~3.3A	55.2V, 0~4.4A	55.2V, 0~6.5A
Dimension (mm)	192x178x45.5			



Model No.	ENC-120	ENC-180	ENC-240	ENC-360
Vout / Iout	14.4V, 0~6A	14.4V, 0~12A	14.4V, 0~16A	14.4V, 0~24A
	28.8V, 0~4A	28.8V, 0~6A	28.8V, 0~8A	28.8V, 0~12A
	57.6V, 0~2A	57.6V, 0~3A	57.6V, 0~4A	57.6V, 0~6A
Dimension (mm)	192x178x45.5			

NPB Series

120~1700W Ultra Wide Voltage Smart Charger

AC Connector Type	
NLR	
A03	
TR	



NPB-120
NPB-240
NPB-360



NPB-450
NPB-450 w/NFC



NPB-750



NPB-1200



NPB-1700

NPB-120~360 Features

- Universal AC input/Full range 90~264VAC
- Compact size, wide output voltage range for charging
- Hardwired design (NPB-120/240)
- Fan ON/OFF control
- Depends on internal temperature, NPB-360
- Charging voltage is smart adjustable by VR
- 2 or 3 stage selectable by DIP S/W
- No load power consumption<0.5W (AC S/W off)
- 30~+70°C wide operating temperature
- Protection: Short Circuit/Over Voltage/Over Temp./Battery Reverse Polarity
- UL 516/UL2593-1 & IEC62368-1/2-23 dual certification approved
- Suitable for charging lead-acid batteries and lithium batteries
- Many accessories can be purchased separately (order NO. MP150120)
- 3 years warranty

NPB-450~1700 Features

- Universal AC input/Full range 90~264VAC
- 2 times wide charging voltage range
- Can be used for multiple battery voltages
- Setting parameter of charger easily via NFC interface (NPB-450 w/NFC)
- Intelligent detection of charging voltage
- Programmable charging curve via SEP ONE button P.S.S
- Manual setting for 2/3 stage and 4 built-in charging curves via DIP S/W
- 24V in CANbus interface for control, setting, and monitor
- Charging current adjustable 50~100% by VR
- 30~+70°C wide operating temperature
- Protection: Short Circuit/Over Voltage/Over Temp./Battery Undervoltage/Battery Reverse Polarity (No damage)
- Defect charger OK and battery full signal through TTL
- Remote S/W / thermal control DC fan
- Temperature compensation function to prolong battery life (Lead-acid only)
- UL 516/UL2593-1 & IEC62368-1/2-23 dual certification approved
- Suitable for charging lead-acid batteries and lithium batteries
- Carry handle accessory available (Order No.: PH-Carry handle)
- 3 years warranty

Models



Model No.	NPB-120 □	NPB-240 □	NPB-360 □
Vout / Inout	14.4V(10.5~13.2V), 6.8A	14.4V(10.5~13.2V), 13.3A	14.4V(10.5~13.2V), 20A
	28.8V(21~36.4V), 4A	28.8V(21~36.4V), 8A	28.8V(21~36.4V), 12A
	57.6V(42~60.8V), 2A	57.6V(42~60.8V), 4A	57.6V(42~60.8V), 6A
Dimension (mm)	180x95x49		

□: NLR; A03; TR

Model No.	NPB-450 □	NPB-750	NPB-1200	NPB-1700
Vout / Inout	14.4V(10.5~21V), 0~25A	14.4V(10.5~21V), 0~43A	14.4V(10.5~21V), 0~70A	14.4V(10.5~21V), 0~85A
	28.8V(21~42V), 0~13.5A	28.8V(21~42V), 0~22.5A	28.8V(21~42V), 0~36A	28.8V(21~42V), 0~50A
	57.6V(42~80V), 0~3.8A	57.6V(42~80V), 0~11.3A	57.6V(42~80V), 0~18A	57.6V(42~80V), 0~25A
	72V(54~100V), 0~5.5A			
Dimension (mm)	205x130x55	230x158x67	250x158x67	300x184x70

450-1700W 2-in-1 Ultra Wide Voltage Charger & Constant Voltage Power Supply

NPP Series



NPP-450



NPP-750



NPP-1200



NPP-1700



Battery Charger-NPP Series

Features

- Universal AC input/Full range: 90-264VAC
- Charger or power supply constant voltage adjustable (jump pin on the panel)
- 2 times wide voltage output
- Volt and load adjustable by VE
- 2 stage charging curve (Charging Model)
- 30~+70°C wide operating temperature
- Protection: Short Circuit/Overload/Over Voltage/Over Temp.
- Remote SW/thermal control DC fan
- Suitable for charging lead-acid batteries and lithium batteries.
- Comply with UL1372/UL1375 & IEC6235-1/2-29 dual certification
- Carry handle accessory available (Order No.: PH Carry handle)
- 3 years warranty

Models



Model No.	NPP-450	NPP-750	NPP-1200	NPP-1700
Vout / Iout	14.4V(0.5-21V) 12.5-25A	14.4V(0.5-21V) 21.5-43A	14.4V(0.5-21V) 35-70A	14.4V(0.5-21V) 42.5-85A
	28.8V(21-42V) 6.75-13.5A	28.8V(21-42V) 11.25-22.5A	28.8V(21-42V) 18-36A	28.8V(21-42V) 25-50A
	57.6V(42-80V) 3.4-6.8A	57.6V(42-80V) 5.65-11.3A	57.6V(42-80V) 9-18A	57.6V(42-80V) 12.5-25A
Dimension (mm)	205x130x55	230x158x67	250x158x67	300x184x70

NPP VS. NPB Selection Guide

Function Series	Housing style	Product Input	2 or 3 stage	UL AC	IEC AC	Built-in CA/Batt	GF connector	Built-in Fan	Dimension (LxWxH,mm)
NPB-120 NPB-240 NPB-500	Portable	Basic	Adj by DIP SW	Adj by VE 24.4V(10.0-15.0V) 28.8V(21-30V) 57.6V(42-80.0V)		X	TB Anderson 4.2	DC	180x134x47
NPP-450 NPP-750 NPP-1200 NPP-1700	30mm Squared	Universal	Adj by DIP SW or NPP-750 with N.C.D	Auto-ranging in 300/1000 24.4V(10.0-15.0V) 28.8V(21-42V) 57.6V(42-80V) 1200V-120V (1000V only)	Adj by VE 50-100%	✓	TB	✓	205x130x55 230x158x67 250x158x67 300x184x70
NPP-450 NPP-750 NPP-1200 NPP-1700		Squared	Temper only	Adj by VE 24.4V(10.0-15.0V) 28.8V(21-42V) 57.6V(42-80V) 1200V-120V (1000V only)		X			205x130x55 230x158x67 250x158x67 300x184x70

RPB/RCB/DBU/NCP

1600/3200W High Power Programmable Charger



■ RPB/RCB-1600 Features

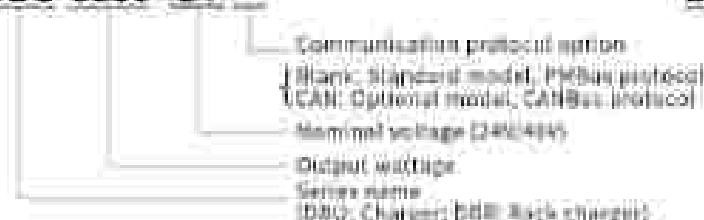
- Universal AC input/Full range: 90-264VAC
- 3 stage charging curves
- Withstand 300VAC surge input for 5 secs
- Built-in I²C interface, PMBus protocol (CANBus protocol selectable)
- 1U low profile with 41 mm height
- Rack mountable, sharing up to 3000W (RCB-1600)
- Active current sharing up to 4800W (RPB-1600)
- Vout and Iout programmable
- Forced air cooling by built-in DC fan
- Built-in MOSFET, support hot swap
- Protections: Short Circuit/Over Voltage/Over Temp./Battery Under voltage/Battery Disconnected
- 3 color LED loading indicator
- Optional conformal coating
- Suitable for charging lead-acid batteries and lithium batteries
- 3 years warranty

■ DBU/NCP-3200 Features

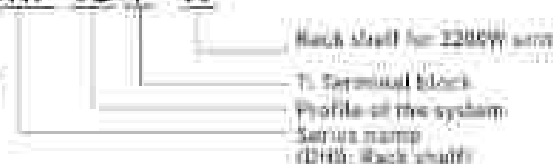
- Universal AC input/Full range: 90-264VAC
- Built-in default 3 stage charging curves and programmable curve, can be set via SBC001 (Detail refer to P04)
- High efficiency up to 94.5%
- High power density 37W/in³
- Forced air cooling by built-in DC fan
- Vout and Iout programmable
- Built-in MOSFET, support hot swap
- Active current sharing up to 6400W (DBU-3200)/12800W (NCP-3200)
- Built-in I²C interface, PMBus protocol (Optional CANBus)
- Protections: Short Circuit/Over Voltage/Over Temp./Battery Under voltage/Battery Disconnected
- Optional conformal coating
- Suitable for charging lead-acid batteries and lithium batteries
- 3 years warranty

■ Order Information

DBU-3200- 24



DHP-1U T - A



■ Models



Model No.	RPB-1600	RCB-1600	DBU-3200	NCP-3200
Vout / Iout	14.4V, 0~100A 28.8V, 0~55A 57.6V, 0~27.5A	14.4V, 0~100A 28.8V, 0~55A 57.6V, 0~27.5A	28.8V, 0~110A 57.6V, 0~55A	24V, 0~133A 48V, 0~67A 120V, 0~9.6A
Dimension (mm)	300x85x41		125x107x41	NCP-3200: 125x107x41 DHP-1UT: 400x452.6x44

Intelligent Battery Charging Programmer

SBP-001



SBP-001
200x100x25mm

■ Features

-Charging curve can be programmable when matching with MEAN WELL's Intelligent Battery Chargers

Suitable for models:

ENC-120/240/360, WPB-450/750/1200/1700,

DRS-240/480, HEP-1000/HEP-2300-15,

RPS/RCE-1500, DBU/NCP-3200

-Simple connection and configuration

-No need of battery or AC power

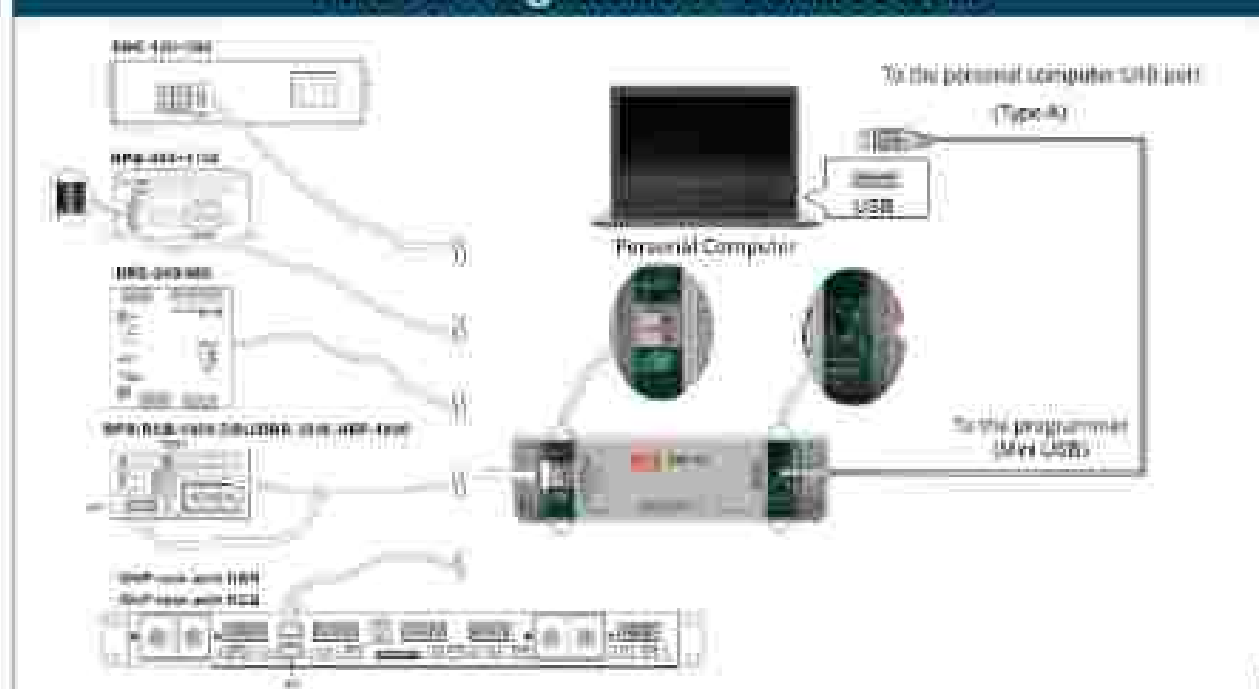
-LED status indicator

■ Description

SBP-001, a smart programmer specially designed for MEAN WELL's various programmable chargers, with adjustable settings such as Constant Current (CC), Constant Voltage (CV), Float Voltage (FV) and Tap Current (TC) etc.

To adapt the variety of batteries, users can easily adjust MEAN WELL's programmable chargers by SBP-001 smart programmer and personal computer, while complete the various charging settings via the dedicated software.

Smart Programmer Connection



HEP-600C/BIC-2200

Harsh Environment & Bidirectional Power Supply



HEP-600C



BIC-2200

HEP-600C Features

- Can charge lead-acid and lithium batteries in harsh environments
- Universal AC input Full range: 85~264VAC
- 3 stage charging
- Built-in active PFC function
- No load power consumption<0.5W at remote OFF
- High efficiency up to 98%
- Fanless Design, cooling by free air convection
- Aluminum case and filling with heat-conducted glue
- Withstand 10G vibration test
- 40 ~ +70°C wide operating range
- Operating altitude up to 3000 meters
- Output voltage and output current can be adjusted through internal potentiometer
- Protection: Short Circuit/Over Voltage/Over Temp.
- 6 years warranty

BIC-2200 Features

- AC/DC Bidirectional Power Supply
- Full digital design with 92% conversion efficiency for both AC/DC & DC/AC conversion
- 1U low profile
- Ultrafast switching time <1μs (AC/DC ↔ DC/AC)
- Active current sharing up to 11kW (4+3)
- <0% low THDi in both conversion mode
- Force charging and discharging mode with CANBus model
- Protection: Anti-islanding/AC fail/DC OVP/OLP/OCP/OTP
- 5 years warranty

Models



Model No.	HEP-600C	BIC-2200-xx
Vout/Iout	14.4V, 0~33A	12V, 0~180A
	28.8V, 0~21A	24V, 0~90A
	57.6V, 0~10.5A	48V, 0~45A
		96V, 0~22.5A
Dimension (mm)	200x144x48.5	330x140x41

[CB] CB: CB, [CAN] CAN: CANBus protocol, [REACH] REACH: REACH protocol

THE MC INVENTION KIT Series



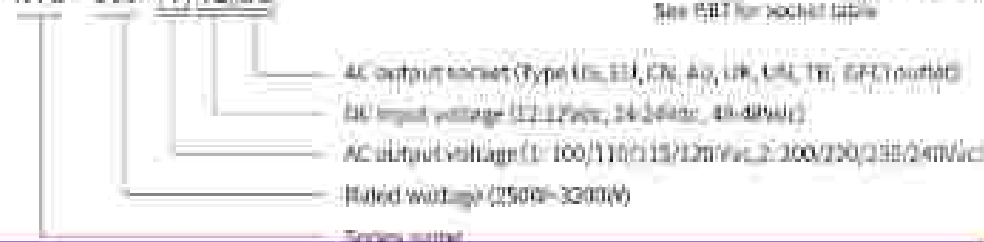
- High frequency design, compact size and light weighted
- Built-in type (NTS-250P/400P)
- True sine wave output (THD<3%)
- High surge power up to 300%
- Fanless design, free air convection (NTS-300P/400P/500P)
- AC output voltage and frequency selectable by DIP S/W
- No load power consumption <1.1-1.7W at standby saving mode (According to models)
- -25~+75°C wide operating temperature
- Protection:
 - DC Input: Reverse Polarity/DC Undervoltage Alarm/
 - DC Line Voltage Shutdown/Over Voltage
 - AC Output: Short Circuit/Overload/Over Temp
- Power ON/OFF remote control
- Remote controller
- IRC1, IRC2, IRC3 accessory sold separately, suitable for 750W~3200W
- Support RS-232 communication
- 750W~3200W, Cable PFF1, RUI1-RES22 sold separately
- Built-in Tx/Rx for monitoring power inverter status (Only NTS-250P/400P)
- Carry handle accessory (Order No. PH-Carry handle, sold separately)
- Suitable for lead-acid or Li-Ion batteries
- Internal PCB board with cooling protection
- 3 years warranty

CB (K) (E) A III FC C €

Installation	Model No.	Continuous power	Input(Vdc)	Output(Vdc/Hz)	Built-in Fan	AC Bypass Function	
Rackmount (CS type)	NTS-250P-xxx	250W	10~26.5Vdc 20~235dc 40~55Vdc	110/120/140/150W/60/50/60Hz 210/220/240/200W/50/60/60Hz	✗		
	NTS-400P-xxx	400W					
	NTS-800-xxx/yy	800W					
	NTS-450-xxx/yy	450W					
External (Portable)	NTS-750-xxx/yy	750W		100/110/115/120Vdc 200/220/230/240Vdc <i>(4-stage output voltage can be selected through DIP S.W.)</i>	✓		✗
	NTS-1200-xxx/yy	1200W					
	NTS-1700-xxx/yy	1700W					
	NTS-2200-xxx/yy	2200W					
	NTS-3200-xxx/yy	3200W					

```
Wingel var=112, 104, 246, 212, 204, 240
AC_outputsocket yy=US, UR, UFD, TR (for 110 var models)
               =EU, UR, ENLAI, UR, TR (for 230 var models)
See EBT for socket table
```

NTB 300-1 12/08



NTU Series

1200-3200W True Sine Wave DC-AC Inverter
(Built-in AC Bypass)



NTU-1200
42x120x42 mm



NTU-1700
42x140x42 mm



NTU-2200
42x160x42 mm



NTU-3200
42x180x42 mm

Features

Built-in UPS function (AC Bypass)

True sine wave output (THD<3%)

High surge power up to 200%

AC output voltage and frequency adjustable by DIP SW

-25~+55°C wide operating temperature

Power ON-OFF remote control

Remote controller

(RC1)RC2,RC3 necessary sold separately,
available for 1200W~3200W

Protections

DC Input: Reverse Polarity/OK, Undervoltage Alarm

DC Low Voltage Shutdown/Over Voltage

AC Output: Short Circuit/Overload/Over Temp.

Support RS-232 communication

(150W~3200W, cable RS-485-PS232 sold separately)

Carry handle accessory (Dider box, PB-Carry handle, sold separately)

Suitable for lead-acid or Li-ion batteries

Internal PCB board with cooling protection

3 years warranty

Models

CB

Model type	Model No.	Continuous Power	Input (Vdc)	Output (Vac/Hz)	Built-in Fan	AC Bypass Function
External (Portable)	NTU-1200-xxxxxy	1200W	10~16.5Vdc 20~230Vdc 40~60Vdc	115, 114, 140~110Vac/50Hz 212, 204, 240~230Vac/50/60		
	NTU-1700-xxxxxy	1700W		100, 110, 115, 120Vdc		
	NTU-2200-xxxxxy	2200W		200, 220, 230, 240Vdc		
	NTU-3200-xxxxxy	3200W		16 stage output voltage can be adjusted through DIP SW		

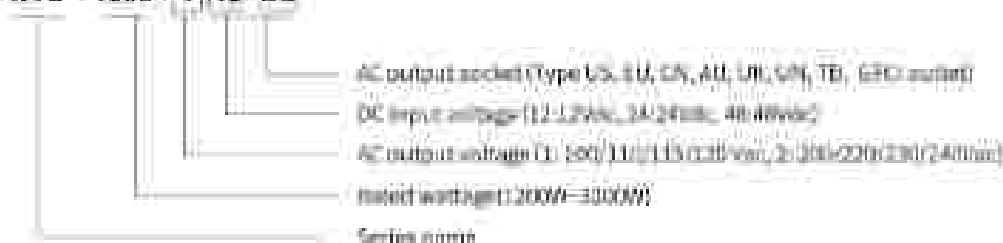
Model no. = 112, 124, 140, 202, 224, 240

AC output voltage = US, UK, GFCI, TB (for 110 Vac multi)

= EU, UK, CN, AU, UK, TB (for 230 Vac models)

Model Encoding

NTU - 1200 - 1 | 12 | US



Model	100~110Vdc model				200~240Vdc model					
Model type										
	TYPE A	TYPE B	TYPE C	TYPE D	TYPE E	TYPE F	TYPE G	TYPE H	TYPE I	TYPE J
Country	USA	USA/CA	CA	USA/CA	USA/CA	USA/CA	USA/CA	USA/CA	USA/CA	USA/CA

*TYPE-TB is only applicable to NTU/NTU-2200/3200 series

TN Series



1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 26

NTN Series

5KW Off-Grid True-Sine Wave DC-AC Inverter
(Built-in AC charger + AC Bypass & External MPPT Solar Charger)



NTN-5K
5000W True-Sine Wave Inverter



AC Output Side



DC Input Side

Features

- Combining AC utility, battery power source and solar charger to supply AC output
- True Sine wave output (THD<3%)
- AC utility charge up to 125A (2KW max)
- Can support external MPPT solar charger
- AC by-pass without interruption transfer time <10ms
- High surge power up to 10KW
- Parallel synchronized operation up to 30KW (3+1 unit)
- 30°C~+45°C wide operating temperature
- Protections:
 - DC Input: Reverse Polarity / DC Low Alarm / DC Low Shutdown / Over Voltage
 - AC Output: Short Circuit / Overload / Over Temp / AC Circuit Breaker
- Support MODBUS-RTU(RS-485) communication
- 3 years warranty

Models

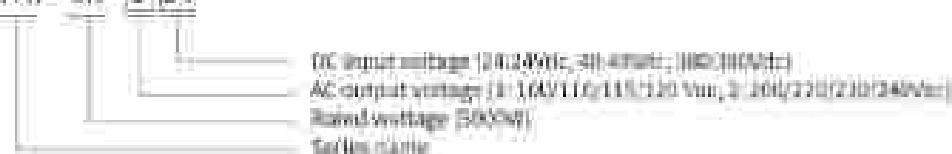
CB CE FCC ENEC

Installation	Model No.	Continuous power	Input(Vdc)	Output(Vac/Hz)	Charge AC MPPT	AC System Function	AC Output Parallel
Built-in	NTN-5K-xxx	5000W	20~33Vdc 40~65Vdc 230~450Vdc	104, 144~110Vac/60Hz 224, 240, 230V~230VAc/50Hz 100/110/125/130VAc 230/220/230/240VAc It change output voltage can be adjusted through DIP 5 bit	√ External	√ (+50ms)	√ (2+1 unit)

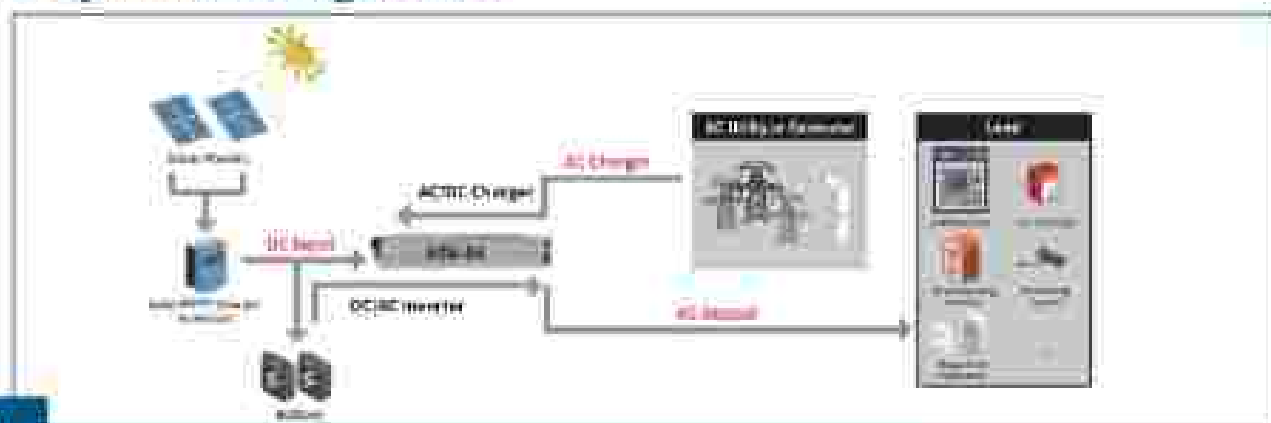
Model Encoding

Model ex: L2: xxx24,48, 96

NTN - 5K - 2 (24)



System Configuration



100-2500W Modified Sine Wave DC-AC Inverter

A301/A302

DC-AC Inverter-A301/A302



Features

- High frequency & portable design
- With power ON/OFF switch and LED Indicator
- Remote ON/OFF controller sold separately (1000-2500W)
- Built-in USB 5VDC/0.5A, fanless (100W)
- Input and output are fully isolated
- Protections:
DC Input: Reverse Polarity/Over Voltage/
Low Voltage Shutdown
AC Output: Short Circuit/Overload/Over Temp.
- **1 year warranty**

Models



Installation	Model No.	Continue power	Input(Vdc)	Output(Vac/Hz)	Built-in Fan			
External (Portable)	A301-100-F2 A302-100-F3	100W			✗			
	A301-150-B2 A302-150-F2	100W						
	A301-150-B2							
	A302-150-F2							
	A301-200-B2 A302-200-F2	300W						
	A301-200-B2							
	A302-200-F2							
	A301-400-B2 A302-400-F2	600W						
	A301-400-B2							
	A302-400-F2							
	A301-100-B2 A302-100-F2	1000W	A301-10-10Vdc A302-11-10Vdc	E2:110Vdc/60Hz E3:230Vdc/50Hz	✓			
	A301-100-B2							
	A302-100-F2							
	A301-1K3-B2 A302-1K3-F2	1000W						
	A301-1K3-B2							
	A302-1K3-F2							
	A301-2K5-B4 A302-2K5-F4	2500W						
	A301-2K5-B4							
	A302-2K5-F4							

Model Encoding

A301-100-F2

- AC Output Socket (Refer to the table on the right)
- AC Input Voltage (B1: 6Vdc, F: 120Vdc)
- Output Wattage (100:100W, 150:150W, 300:300W, 1000:1000W, 1K3:1700W, 2K5:2500W)
- DC Input Voltage (1:12Vdc, 2:24Vdc)

TYPE1	TYPE2	TYPE3	TYPE4	TYPE5	TYPE6
100W	150W	300W	1000W	1000W	2500W
* Please confirm the output power of the inverter before use. * Please confirm the output power of the inverter before use.					

ERS/ERG Series

4 CH 1400W Energy Recycling DC Power Supply
4 CH 5000W Energy Recycling Grid Type Power Inverter



ERS Features

- AC/DC Energy Recovery System Power Supply
- Wide input voltage range:
10-60VDC/60-380VDC by models
- Modular design, flexible configuration of aging tests in groups or partitions
- Flexible CC/CV/CP operation modes
- Built-in CANBus communication interface, and can be used with CMU2A for remote monitoring, setting, data analysis and management
- Max. of 64 units ERS-1400 can be connected
- Protection: Over Voltage/Undervoltage/Over Temp./Communication Error
- Aging test system, energy saving & carbon reduction
- 5 years warranty

ERG Features

- DC/AC Grid-connected Energy Recovery Inverter
- Wide input voltage range:
10-60VDC/60-420VDC by models
- Modular design, flexible configuration of aging tests in groups or partitions
- Flexible CC/CV operation modes
- Built-in CANBus communication interface, and can be used with CMU2A for remote monitoring, setting, data analysis and management
- Max. of 64 units ERG-5000 can be connected
- Protection: Over & Undervoltage/Over Temp./Over Power/Grid Fault/Communication Error
- Aging test system, energy saving & carbon reduction
- 5 years warranty

Models



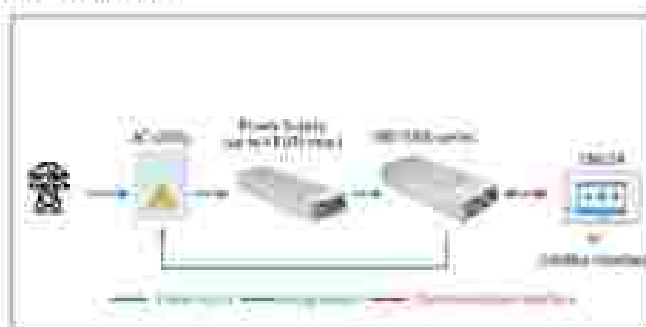
MODEL NO.	ERS-1400	ERS-1400H	ERG-5000	ERG-5000H
DC Input Voltage	10-60VDC	60-380VDC	10-60VDC	60-420VDC
AC Input Voltage	180-264VAC		N/A	
Volt / Unit	320VDC, 0-6.3A	320VDC, 0-6.3A	180-264VAC, Single Phase, 24A	

Application Diagram:

ERS-1400(H)

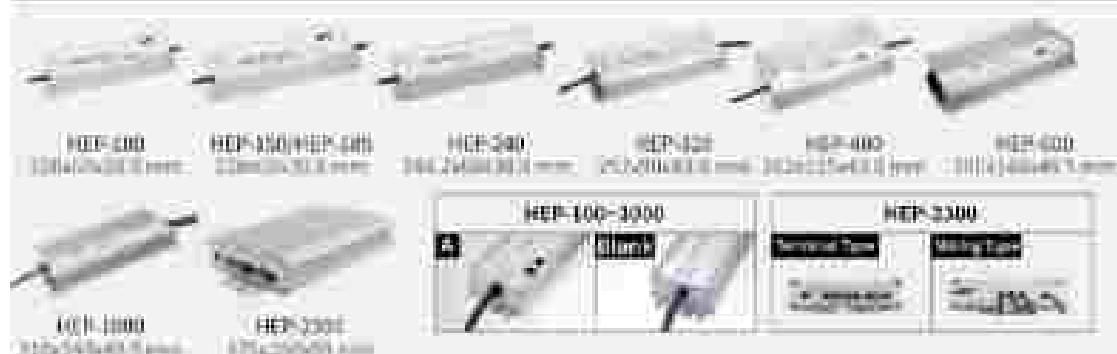


ERG-5000(H)



100~2300W Power Supply For Harsh Environments HEP Series

Specific purpose Harsh Env.



■ HEP-100~600 Features

- Universal AC input/Full range 85~265VAC
- Active PFC, high efficiency up to 96%
- No-load power consumption<0.5W at remote OFF (HEP-600)
- Aluminum case and filling with heat-conducted glue
- Inline design
- 40~+85°C wide operating temperature (HEP-600: -40~+70°C)
- Meet MIL surge immunity level
- Withstand 170g vibration test
- Operating altitude up to 5000 meters
- Protection: Short Circuit/Overload/Over Voltage/Over Temp.
- Various functions for selection
- A-Type (Standard): V_o , I_o and I_{sc} can be adjusted through internal potentiometer
- Blank-Type (Optional): V_o , I_o and I_{sc} cannot be adjusted (Except for HEP-600)
- Suitable for industrial applications in high/low temperature, high humidity, high vibration or outdoor
- 1 year warranty

■ HEP-1000~2300 Features

- Universal AC input/Full range 85~265VAC
- Active PFC, high efficiency up to 96%
- Aluminum case **Spill-Resistant** design, filling with heat-conducted glue
- Withstand 170g vibration test
- 40~+85°C wide operating temperature
- Charge for lead acid batteries and Li-Ion batteries
- Built in default 2.0 stage charging curves and programmable curve
- Built in **CAUTION** PMW or Modem selectable (Only HEP-2300)
- Output voltage and constant current level programmable
- Remote ON/OFF control (Except for HEP-2300 Terminal Type)
- DC OK active signal and auxiliary power status
- HEP-2300 harness connector type with AC fail and T-Alarm signal
- Protection: Short Circuit/Overload/Over Voltage/Over Temp.
- IP67 design for indoor or outdoor installation (Wiring Type)**
- LED indicator for power on (Except for HEP-2300 as Terminal Type)
- 1 year warranty

■ Models

IP65 IP67

Model No.	HEP-100□	HEP-150□	HEP-165□	HEP-240□
Vout / Iout	12V, 0~8.34A	12V, 0~12.5A	12V, 0~10A	12V, 0~10A
	15V, 0~6.67A	15V, 0~10A	15V, 0~11.5A	15V, 0~15A
	24V, 0~4A	24V, 0~6.3A	24V, 0~7.8A	24V, 0~10A
	36V, 0~2.65A	36V, 0~4.2A	36V, 0~5.2A	36V, 0~6.7A
	48V, 0~2A	48V, 0~3.2A	48V, 0~3.9A	48V, 0~5A
	54V, 0~1.77A	54V, 0~2.8A	54V, 0~3.45A	54V, 0~4.45A

Model No.	HEP-320□	HEP-480□	HEP-600	HEP-1000□	HEP-2300□
Vout / Iout	12V, 0~22.0A	24V, 0~20A	12V, 0~40A	24V, 0~42A	Power: 55V, 0~48A
	15V, 0~19.0A	36V, 0~12.3A	15V, 0~30A	Power: 48V, 0~21A	charger: 57.6V, 0~48A
	24V, 0~12.34A	48V, 0~10A	20V, 0~28A	100V, 0~10A	
	36V, 0~8.00A	54V, 0~8.5A	24V, 0~25A	28.8V, 0~35A	115V, 0~20A
	48V, 0~6.70A		30V, 0~20A	charger: 57.6V, 0~17.5A	charger: 230V, 0~16.6A
	54V, 0~5.95A		36V, 0~16.7A	115.2V, 0~8.7A	380V, 0~8.9A
			42V, 0~14.3A		
			48V, 0~12.5A		
			54V, 0~11.2A		

□: A or Blank, A: Standard model (IP65), Blank: Optional model (IP67)

(□=Blank, W, HEP2300 only) Blank: Terminal type, W: Wiring type with IP67, H: Harness connector type

PSC/ADS/AD/ADD Series

25-100W PCB/Enclosed Type (with UPS)
Single/Dual Output Security Power



PSC Features

- Universal AC input/Full range 50-250VAC
- Single output with built-in battery charging control (UPS function)
- PCB (PSC) & Enclosed (PSC-E) Type, multiple option
- Compact size
- Protection: Short Circuit/Overload/Over voltage/Battery low/Battery Reverse Polarity/Alarm
- Alarm signal for AC/DC and battery reverse low
- Fail-safe design, free air convection
- 40~+100°C wide operating temperature
- 3 years warranty

ADS/AD/ADD Features

- Universal AC input/Full range 50-250VAC
- Fail-safe design
- ADS: Single output, with optional 5V with no external battery
- AD: Multiple battery charging control for single output, and external battery can be used to form UPS
- ADD: Dual output with built-in battery charging control, and external battery can be connected to form UPS
- Protection: Short Circuit/Overload/Over voltage/Battery Low voltage (except ADS series/Battery Polarity (ADD-150))
- 40~+100°C working temperature
- Support CAN/RS485 system
- 3 years warranty

Models



Model No.	Output Voltage	PSC-35A	PSC-55E	PSC-60A	PSC-60E	
Vout / Iout	CH1 Main Power	13.8V, 0~2.6A	27.6V, 0~1.3A	13.8V, 0~4.3A	27.6V, 0~2.15A	
	CH2 5V (500mA)	13.8V, 0~0.8A	27.6V, 0~0.45A	13.8V, 0~1.5A	27.6V, 0~0.75A	
Dimension (mm)		PCB: 84.4x50.8x24 Enclosed: 85.4x59.8x30		PCB: 101.5x50.8x29 Enclosed: 101.4x62x37		
Model No.	Output Voltage	PSC-100A	PSC-100E	PSC-150A	PSC-160E	
Vout / Iout	CH1 Main Power	13.8V, 0~7A	27.6V, 0~3.5A	13.8V, 0~11.6A	27.6V, 0~5.8A	
	CH2 5V (500mA)	13.8V, 0~2.5A	27.6V, 0~1.25A	13.8V, 0~4A	27.6V, 0~2A	
Dimension (mm)		PCB: 127x78.2x31 Enclosed: 130x85x37		PCB: 152.4x78.2x37 Enclosed: 155.4x85x37		
CPB Blank, C: Blank; PCB type: C: Enclosed type						
Model No.	Output Voltage	ADS-5512	ADS-5524	ADS-15512	ADS-15524	ADS-15548
Vout / Iout	CH1 Main Power	12V, 0~4A	24V, 0~2.5A	12V, 0~12.5A	24V, 0~6.5A	48V, 0~3.2A
	CH2 5V (500mA)	5V, 0~4A	5V, 0~4A	5V, 0~3A	5V, 0~3A	5V, 0~3A
Model No.	Output Voltage	AD-55A	AD-55E	AD-155A	AD-155E	AD-155C
Vout / Iout	CH1 Main Power	13.8V, 0~4A	27.6V, 0~2A	13.8V, 0~11.5A	27.6V, 0~6.5A	54V, 0~2.7A
	CH2 5V (500mA)	13.8V, 0~0.23A	27.6V, 0~0.16A	13.8V, 0~0.5A	27.1V, 0~0.5A	53.5V, 0~0.5A
Model No.	Output Voltage	ADD-55A	ADD-55E	ADD-155A	ADD-155E	ADD-155C
Vout / Iout	CH1 Main Power	13.8V, 0~3.8A	27.6V, 0~2A	13.8V, 0~10.5A	27.6V, 0~5A	54V, 0~2.5A
	CH2 5V (500mA)	5V, 0~4A	5V, 0~4A	5V, 0~3A	5V, 0~3A	5V, 0~3A
	CH3 5V (500mA)	13.8V, 0~0.23A	27.6V, 0~0.16A	13.8V, 0~0.5A	27.1V, 0~0.5A	53.5V, 0~0.5A

33-75W Single Output Security Power (Enlized Type)

120-600W Security/Fire Alarm with UPS Function(Enlized Type)

SCP/LAD Series



SCP Features

- Universal AC input/Full range: 85-264VAC
- Basic model, can be plugged in with an external battery, don't have battery charging circuit
- Turkey design, low air convection
- Output voltage direction signal
- Temperature compensation function
- No load power consumption <0.2W
- Protection: Short Circuit/Overload/Over voltage/ Battery Reverse Polarity Protection by Fuse
- 20~+60°C operating temperature
- LED indicator for power on
- 3 years warranty

LAD Features

- Universal AC input / Full range
- 120W 85-264VAC, 240-600W 115/230VAC by 5.0V
- Single output with battery charging circuit, external battery can be connected to constitute UPS function
- Built in TTL signals for status direction: AC OFF, Battery Disconnect, Battery Reverse Polarity, Battery Undervoltage, Fully Charged and Backup
- UART Communication (LAD-360/600 (J Type Only))
- Built in main and backup circuit enhance maintenance safety
- CH1 output voltage adjustable (±2~+9%) by VR
- Built in **buzzer alarm** (LAD-360/600 (J Type Only))
- Forced UPS activation for battery maintenance
- Protection: Short Circuit/Overload/Over voltage/Over Temp / Battery Undervoltage/Battery Reverse Polarity (No charging)
- 20~+60°C operating temperature
- Comply with Fire regulation GB17945
- 1U size (height 130mm)
- 3 years warranty

Models

CB, CE, RoHS, IEC, CE, UK

Model No.		SCP-33	SCP-50	SCP-75
Vout / Iout		13.8V, 0~2.6A 27.6V, 0~1.4A	13.8V, 0~3.6A 27.6V, 0~1.8A	13.8V, 0~5.4A 27.6V, 0~2.7A
Dimension (mm)		99x97x38	129x98x38	159x97x38

Model No.	Output Voltage	LAD-120A	LAD-120B	LAD-120C	LAD-120D
Vout / Iout	CH1	13.8V, 0~8.7A	27.6V, 0~4.4A	41.5V, 0~2.8A	55.2V, 0~2.2A
	CH2	11.8V, 0~1A	27.6V, 0~1A	41.5V, 0~1A	55.2V, 0~1A

Model No.	Output Voltage	LAD-240A	LAD-240B	LAD-240C	LAD-240D
Vout / Iout	CH1	13.8V, 0~17.4A	27.6V, 0~8.7A	41.5V, 0~5.78A	55.2V, 0~4.4A
	CH2	11.8V, 0~1A	27.6V, 0~1A	41.5V, 0~1A	55.2V, 0~1A

Model No.	Output Voltage	LAD-360B(U)	LAD-360C(U)	LAD-360D(U)
Vout / Iout	CH1	27.6V, 0~13A	41.5V, 0~8.64A	55.2V, 0~6.53A
	CH2	27.6V, 0~1.5A	41.5V, 0~1.5A	55.2V, 0~1.5A

Model No.	Output Voltage	LAD-600B(U)	LAD-600C(U)	LAD-600D(U)
Vout / Iout	CH1	27.6V, 0~31.74A	41.5V, 0~14.45A	55.2V, 0~10.87A
	CH2	27.6V, 0~3A	41.5V, 0~3A	55.2V, 0~3A

U: Built-in UART Communication

DRC/DRS Series

40-480W Security/Fire Alarm DIN Rail



DRC Features

- Universal AC input Full range 90-250VAC
- Single output with battery charging circuit, external battery can be connected to substitute UPS function
- Pass UPS (DRC-40/60)
- Compact design, free air convection
- Alarm signal for AC Off and battery low-vol relay control
- Protection: Short Circuit/Overload/Over Voltage/Battery Low/Battery Reverse Polarity/Load
- 30~+70°C wide operating temperature
- LED Indicator for power on
- 3 years warranty

DRS Features

- Universal AC input Full range 90-250VAC
- Integrated multifunctional intelligent power supply for Security/Fire Alarm/Power Supply/DC UPS/Battery Charging and Monitoring
- Signal and alarm design meet UL2581/EN50444/EN50170 requirement
- Load power protection when the AC power grid is abnormal
- Force Charging, detects AC fail, DC OK, low battery voltage, abnormal selection of charging source
- Built-in MOSFET without IGBTs (optional)
- Protection: Short Circuit/Overload/Over Voltage/Over Temp./auto-correcting/Battery Discharged/Battery Under-voltage/Battery Reverse Polarity (No damage)
- 20-100% charging current adjustable by VV
- 2 or 3 charging times adjustable by DIP SW
- 30~+70°C wide operating temperature
- Suitable for lead acid and lithium-ion batteries
- 3 years warranty

Models



Model No.	Output Voltage	DRC-40A	DRC-60B	DRC-100A	DRC-100B
Vout / Iout	CH Main Power	13.8V, 0~2.0A	27.6V, 0~1.05A	13.8V, 0~4.3A	27.6V, 0~2.15A
	CH Charging	13.8V, 0~1A	27.6V, 0~0.5A	13.8V, 0~1.3A	27.6V, 0~0.75A
Model No.	Output Voltage	DRC-100A	DRC-100B	DRC-180A	DRC-180B
Vout / Iout	CH Main Power	13.8V, 0~7A	27.6V, 0~3.5A	13.8V, 0~9A	27.6V, 0~4.5A
	CH Charging	13.8V, 0~3.5A	27.6V, 0~1.75A	13.8V, 0~4A	27.6V, 0~2A

Model No.	DHS-240	DRS-480
Vout / Iout	12V, 0~20A 24V, 0~20A	
	24V, 0~10A 36V, 0~11.5A	
	36V, 0~6.6A 48V, 0~10A	
	48V, 0~5A	

- Single
- DRS series built-in high-current charging function
- 3-wire Output Voltage
- Charging Voltage + Load Voltage

Product Name		Type	Input Voltage	Input Current	Output Voltage	Output Current	Output Power	Output Voltage	Output Current	Output Power	Output Voltage	Output Current	Output Power	Output Voltage	Output Current	Output Power	Output Voltage	Output Current	Output Power
Power		AC	100-240V	0.5A	13.8V	2.0A	27.6V	1.05A	13.8V	4.3A	27.6V	2.15A	13.8V	7A	27.6V	3.5A	13.8V	9A	27.6V
		DC	100-240V	0.5A	13.8V	1A	27.6V	0.5A	13.8V	1.3A	27.6V	0.75A	13.8V	3.5A	27.6V	1.75A	13.8V	4A	27.6V
Battery		AC	100-240V	0.5A	13.8V	2.0A	27.6V	1.05A	13.8V	4.3A	27.6V	2.15A	13.8V	7A	27.6V	3.5A	13.8V	9A	27.6V
		DC	100-240V	0.5A	13.8V	1A	27.6V	0.5A	13.8V	1.3A	27.6V	0.75A	13.8V	3.5A	27.6V	1.75A	13.8V	4A	27.6V
		DC	100-240V	0.5A	13.8V	1A	27.6V	0.5A	13.8V	1.3A	27.6V	0.75A	13.8V	3.5A	27.6V	1.75A	13.8V	4A	27.6V
Power		AC	100-240V	0.5A	13.8V	2.0A	27.6V	1.05A	13.8V	4.3A	27.6V	2.15A	13.8V	7A	27.6V	3.5A	13.8V	9A	27.6V
		DC	100-240V	0.5A	13.8V	1A	27.6V	0.5A	13.8V	1.3A	27.6V	0.75A	13.8V	3.5A	27.6V	1.75A	13.8V	4A	27.6V

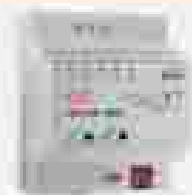
E40/ 1250mA KNX Power & Actuators

KNX/KAA Series



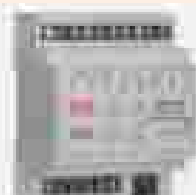
KNX 20E-400

W22x44x88mm 35A 3-core



KNX 40E-1250

W22x44x88mm 35A 3-core



KAA 4R-10S
KAA 4R-10S

W22x44x88mm 35A 3-core



KAA 4R-10S

W22x44x88mm 35A 3-core

Specific Products: KNX Power / Actuator

KNX Features

- E19 / KNX power supply with integrated choke
- 180-254VAC input
- No load power consumption < 0.5W
- Safety Extra Low Voltage (SELV)
- Isolation class I
- Over Voltage category II
- LED indicator for normal operation, bus reset and bus overload
- Compact size
- Protection: Short Circuit/Overload/Over Voltage
- 3 years warranty

KAA Features

- KAA LED switching driver/dimmer
- Dimming and lighting control of LED driver & electrical ballast (KAA-4RIV)
- Linear or logarithmic dimming curve programmable via ETS software (KAA-4EIV)
- 0 channel actuator in a compact size (KAA-4R)
- For AC, C-load, capacitive & inductive d' loads (KAA-4R)
- Manual control via Push button on panel
- Programmable various time and scene function
- 3 years warranty

► MEAN WELL also provide KNX lighting control solution, please check our standard LED driver catalog or visit our website

<http://www.meanwell.com>



Durability of KNX Actuator

All MEAN WELL KNX actuator has been tested more than standard to 220µF to ensure long term operation in the system. In case even higher demand is required, the inrush current limiter can be placed between KNX actuator and the loads to further increase the capacitive load to 2500µF.

Circuit Breaker

KNX Switching Actuator
KAA-4R / KAA-4EIV

Inrush Current Limiter
J25-10A

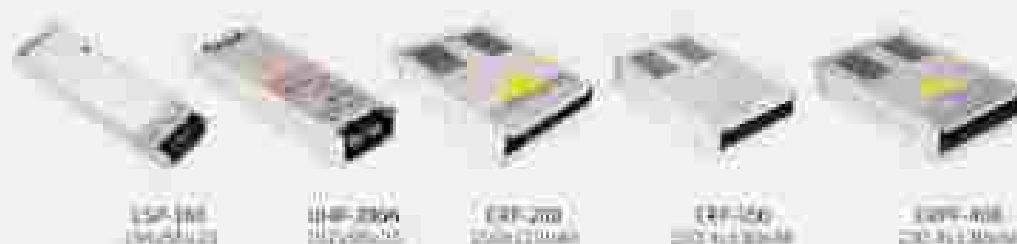
Capacitive Load
e.g. LED Driver



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LSP/UHP/ERP Series

LED Display and Outdoor Lighting Power Supply



LSP/UHP Features

- Universal AC input / full range
- Withstand 300VAC surge input for 5 secs.
- 50mm width and low profile
- Built-in active PFC function
- Built-in current sharing (LSP-160 series output below 5V)
- Fanless design, free air convection
- DC OK active signal function
- Protections: Short Circuit/Overload/Over Voltage/Over Temp.
- LED Indicator for power on
- 3 years warranty

ERP Features

- Constant voltage output
- Withstand 300VAC surge input for 5 secs.
- Metal case with semi potted design, against rain splash
- Built-in active PFC function (ERPF Series)
- No-load/standby power consumption <0.5W
- Protections: Short Circuit/Overload/Over Voltage/Over Temp.
- 3 years warranty

Models



Model No.	LSP-160 (1x1C)	UHP-200A	ERP-200	ERP-350	ERPF-400
Vin	100-264VAC	90-264VAC	180-264VAC	180-264VAC	90-264VAC
Vout / Iout	3.3V, 0~32A	4.2V, 0~40A	12V, 0~16.5A	12V, 0~28.7A	12V, 0~30A
	4.2V, 0~32A	4.5V, 0~40A	24V, 0~8.33A	24V, 0~14.6A	24V, 0~16.7A
	5V, 0~32A	5V, 0~40A		36V, 0~9.7A	48V, 0~8.3A
	12V, 0~13.5A			48V, 0~7.3A	
	24V, 0~6.75A				
	36V, 0~4.5A				
	48V, 0~3.4A				

□= Blank, or R
O= T or W

Blank: Enclosed
T: For terminal block;

R: Current sharing function (3.3/4.2/5V)
W: For water connector (By Request)

15-1000W ITE DC-DC Converter (Enclosed Type)

SD Series

DC-DC Converter SD Series



Features

- 2:1 wide input range (SD-15-350)
- 4:1 wide input range (SD-500/1000)
- I/O isolation: 1.5KVAC (SD-15-300)
- 2KVAC (SD-500/1000)
- Protection: Short Circuit/Overload/Over-Voltage/Over Temp. (200-1000W) /Input Polarity (500W only)
- Fanless design, cooling by free air convection (SD-15-300)
- Forced air cooling by built-in DC fan (SD-350-1000)
- DC input active surge current limiting (SD-500 only)
- Output OK signal (SD-500/1000)
- 12 Vaux / 0.25A output (SD-500/1000)
- Built-in remote ON/OFF control and remote sense (SD-500/1000)
- 2 years warranty (SD-15-350)
- 3 years warranty (SD-500/1000)

Models

CB

Model No.	SD-15A	SD-15B	SD-15C	SD-25A	SD-25B	SD-25C
Vin	9.2-18VDC	18-36VDC	36-72VDC	9.2-18VDC	18-36VDC	36-72VDC
	5V, 0-3A	5V, 0-3A	5V, 0-3A	5V, 0-5A	5V, 0-3A	5V, 0-3A
Vout / Iout	12V, 0-1.25A	12V, 0-1.25A	12V, 0-1.25A	12V, 0-2.1A	12V, 0-2.1A	12V, 0-2.1A
	24V, 0-0.625A	24V, 0-0.625A	24V, 0-0.625A	24V, 0-1.1A	24V, 0-1.1A	24V, 0-1.1A

Model No.	SD-50A	SD-50B	SD-50C	SD-100A	SD-100B	SD-100C	SD-100D
Vin	9.2-18VDC	18-36VDC	36-72VDC	9.2-18VDC	18-36VDC	36-72VDC	72-144VDC
	5V, 0-10A	5V, 0-10A	5V, 0-10A	5V, 0-18A	5V, 0-30A	5V, 0-20A	5V, 0-30A
Vout / Iout	12V, 0-4.2A	12V, 0-4.2A	12V, 0-4.2A	12V, 0-8.5A	12V, 0-8.5A	12V, 0-8.5A	12V, 0-8.5A
	24V, 0-2.1A	24V, 0-2.1A	24V, 0-2.1A	24V, 0-4.2A	24V, 0-4.2A	24V, 0-4.2A	24V, 0-4.2A

Model No.	SD-150B	SD-150C	SD-150D	SD-200B	SD-200C	SD-200D
Vin	18-36VDC	36-72VDC	72-144VDC	18-36VDC	36-72VDC	72-144VDC
	12V, 0-12.5A	12V, 0-12.5A	12V, 0-12.5A	5V, 0-34A	5V, 0-40A	5V, 0-40A
Vout / Iout	24V, 0-6.3A	24V, 0-6.3A	24V, 0-6.3A	12V, 0-16.7A	12V, 0-16.7A	12V, 0-16.7A
				24V, 0-8.4A	24V, 0-8.4A	24V, 0-8.4A
				48V, 0-4.2A	48V, 0-4.2A	48V, 0-4.2A

Model No.	SD-350B	SD-350C	SD-350D	SD-500L	SD-500H	SD-1000L	SD-1000H
Vin	18-36VDC	36-72VDC	72-144VDC	18-36VDC	72-144VDC	18-72VDC	72-144VDC
	5V, 0-57A	5V, 0-60A	5V, 0-60A	12V, 0-40A	12V, 0-40A	12V, 0-60A	12V, 0-80A
Vout / Iout	12V, 0-27.3A	12V, 0-27.3A	12V, 0-29.2A	24V, 0-21A	24V, 0-21A	24V, 0-40A	24V, 0-40A
	24V, 0-14.6A	24V, 0-14.6A	24V, 0-14.0A	48V, 0-10.5A	48V, 0-10.5A	48V, 0-21A	48V, 0-21A
	48V, 0-7.3A	48V, 0-7.3A	48V, 0-7.3A				

RSD Series

30-500W Railway & ITE DC-DC Converter
(Enclosed Type)



Features

- **Railway & ITE dual certification**
- 2:1 wide input range (RSD-100-500)
- 4:1 wide input range (RSD-30/60)
- **40VDC I/O reinforced isolation**
- Protections: Short Circuit/Overload/Over Voltage/Over Temp./DC Input Reverse Polarity
- **Fanless design**, cooling by free air convection
- **-40~+70°C** wide operating temperature (RSD-500: -40~+80°C)
- Built-in constant current limiting circuit
- Ultra compact and **1U** low profile (25~41 mm)
- **Half encapsulated, moistureproof, dustproof and 5G vibration resistance**
- All using 105°C long life electrolytic capacitors
- LED indicator for power on
- 3 years warranty

Models



Model No.	RSD-30G	RSD-30L	RSD-30H	RSD-60G	RSD-60L	RSD-60H
Vin	6~36VDC	18~72VDC	40~160VDC	6~36VDC	18~72VDC	40~160VDC
	3.3V, 0~6A	3.3V, 0~6A	3.3V, 0~6A	3.3V, 0~12A	3.3V, 0~12A	3.3V, 0~12A
Vout/Iout	5V, 0~6A	5V, 0~6A	5V, 0~6A	5V, 0~12A	5V, 0~12A	5V, 0~12A
	12V, 0~2.5A	12V, 0~2.5A	12V, 0~2.5A	12V, 0~5A	12V, 0~5A	12V, 0~5A
	24V, 0~1.25A	24V, 0~1.25A	24V, 0~1.25A	24V, 0~2.5A	24V, 0~2.5A	24V, 0~2.5A

Model No.	RSD-150B	RSD-150C	RSD-150D	RSD-150E	RSD-150C	RSD-150D
Vin	16.8~31.2VDC	33.6~62.4VDC	67.2~143VDC	16.8~31.2VDC	33.6~62.4VDC	67.2~143VDC
	5V, 0~20A	5V, 0~20A	5V, 0~20A	5V, 0~30A	5V, 0~30A	5V, 0~30A
Vout/Iout	12V, 0~8.4A	12V, 0~8.4A	12V, 0~8.4A	12V, 0~12.5A	12V, 0~12.5A	12V, 0~12.5A
	24V, 0~4.2A	24V, 0~4.2A	24V, 0~4.2A	24V, 0~6.3A	24V, 0~6.3A	24V, 0~6.3A

Model No.	RSD-200B	RSD-200C	RSD-200D	RSD-500B	RSD-500C	RSD-500D
Vin	16.8~31.2VDC	33.6~62.4VDC	67.2~143VDC	16.8~33.6VDC	33.6~62.2VDC	67.2~154VDC
	12V, 0~16.7A	12V, 0~16.7A	12V, 0~16.7A	12V, 0~35A	12V, 0~35A	12V, 0~35A
Vout/Iout	24V, 0~8.4A	24V, 0~8.4A	24V, 0~8.4A	24V, 0~17.5A	24V, 0~18.2A	24V, 0~20.8A
	48V, 0~4.2A	48V, 0~4.2A	48V, 0~4.2A	48V, 0~8.8A	48V, 0~9.6A	48V, 0~10.4A

Model No.	RSD-300B	RSD-300C	RSD-300D	RSD-300E	RSD-300F
Vin	16.8~31.2VDC	33.6~62.4VDC	67.2~143VDC	25.2~46.8VDC	50.4~93.6VDC
	5V, 0~42A	5V, 0~42A	5V, 0~42A	5V, 0~42A	5V, 0~42A
Vout/Iout	12V, 0~22.5A	12V, 0~25A	12V, 0~25A	12V, 0~25A	12V, 0~25A
	24V, 0~11.2A	24V, 0~12.5A	24V, 0~12.5A	24V, 0~12.5A	24V, 0~12.5A
	48V, 0~5.7A	48V, 0~6.3A	48V, 0~6.3A	48V, 0~6.3A	48V, 0~6.3A

15-480W Railway & ITE DC-DC Converter (DIN Rail Type)

DDR Series



DDR-15: 17.5x90x40 33A/0.6A/5V
DDR-30: 33A/0.6A/5V
DDR-60: 33.5x90x40

DDR-120: 33x125x40 66A/2.5A/12V
DDR-240: 66x125x40 132A
DDR-480: 66x125x40 264A

DC-DC Converter: DDR Series

DDR-15~60 Features

- Plastic case
- 4:1 ultra-wide input range
- Compact size with 15U-35U width
- **Fanless design**, cooling by free air convection
- DIN Rail: TS-35/1.5 or TS-35/15
- **4kVDC** I/O Reinforced Isolation
- **-40~+85°C** wide operating temperature
- DC output adjustable ($\pm 10\%$)
- Protections: Short Circuit/Overload/
Over Voltage/Input Reverse Polarity/
Input Under Voltage
- 3 years warranty

DDR-120~480 Features

- Metal case
- 2:1 wide input range
- **Railway & ITE dual certification**
- **150% peak load capability**
- **-40~+125°C** wide operating temperature
- **Fanless design**, cooling by free air convection
- DIN Rail: TS-35/7.5 or TS-35/15
- **4kVDC** I/O Reinforced Isolation
- DC output adjustable ($\pm 15\%$)
- DC OK relay contact and Remote ON/OFF (DDR-240/480 only)
- **Current sharing function** with 1+1
(DDR-240/480 only; Max. 80W/100W)
- Protections: Short Circuit/Overload/Over Voltage/
Input Reverse Polarity/Input Under Voltage
- 3 years warranty

Models

CB, UL, IEC, ENEC, CE, UKCA

Model No.	DDR-15G	DDR-15L	DDR-30G	DDR-30L	DDR-60G	DDR-60L
V_{in}	9-36VDC	18-75VDC	9-36VDC	18-75VDC	9-36VDC	18-75VDC
V_{out}/I_{out}	3.1V, 0-3.5A	3.1V, 0-1.5A	5V, 0-6A	5V, 0-6A	5V, 0-16.8A	5V, 0-12A
	5V, 0-3A	5V, 0-3A	12V, 0-2.5A	12V, 0-2.5A	12V, 0-5A	12V, 0-5A
	12V, 0-1.25A	12V, 0-1.25A	15V, 0-2A	15V, 0-2A	15V, 0-4A	15V, 0-4A
	15V, 0-1A	15V, 0-1A	24V, 0-1.25A	24V, 0-1.25A	24V, 0-2.5A	24V, 0-2.5A
	24V, 0-0.63A	24V, 0-0.63A				

Model No.	DDR-120A	DDR-120B	DDR-120C	DDR-120D	DDR-240A	DDR-240C	DDR-240D
V_{in}	9-18VDC	16.8-33.6VDC	33.6-67.2VDC	67.2-154VDC	16.8-33.6VDC	33.6-67.2VDC	67.2-154VDC
V_{out}/I_{out}	12V, 0-8.3A	12V, 0-10A	12V, 0-10A	12V, 0-10A	24V, 0-10A	24V, 0-10A	24V, 0-10A
	24V, 0-4.2A	24V, 0-5A	24V, 0-5A	24V, 0-5A	48V, 0-5A	48V, 0-5A	48V, 0-5A
	48V, 0-2.1A	48V, 0-2.5A	48V, 0-2.5A	48V, 0-2.5A			

Model No.	DDR-480B	DDR-480C	DDR-480D
V_{in}	16.8-33.6VDC	33.6-67.2VDC	67.2-154VDC
V_{out}/I_{out}	12V, 0-33.4A	12V, 0-33.4A	12V, 0-33.4A
	24V, 0-20A	24V, 0-20A	24V, 0-20A
	48V, 0-10A	48V, 0-10A	48V, 0-10A



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Selection Table of DC-DC Module Type

Type	Product	Series		Power	Vin	Vout	Output Regulation	Input Voltage	Operating Temperature	Dimension (mm)	Certification
		Feature	Model								
Medical	SIP		MD001	1W	5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V)	3.3V 5V 12V 15V	Unregulated	8KVDC	-40~+85°C	6.77x6.87x5.47	UL/TAC/CE/UNCE
			MD002	1W	5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V)	4.5V 4.8V 4.12V 4.15V		8KVDC	-40~+85°C	6.77x6.87x5.47	
			MD003	2W	5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V)	3V 12V 15V		8KVDC	-40~+85°C	6.77x6.87x5.47	
			MD004	2W	5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V)	4.5V 4.8V 4.12V 4.15V		8KVDC	-40~+85°C	6.77x6.87x5.47	
	DIP24		MD005	1W	12V(48V(8~36V) 24V(88V(8~75V)	3V 12V 15V	Regulated	8KVDC	-40~+90°C	1.25x0.87x0.47	EAC/CE/UNCE
			MD006	1W	12V(48V(8~36V) 24V(88V(8~75V)	4.5V 4.12V 4.15V		8KVDC	-40~+90°C	1.25x0.87x0.47	
			MD008	5W	12V(48V(8~36V) 24V(88V(8~75V)	3V 12V 15V		8KVDC	-40~+90°C	1.25x0.87x0.47	
			MD009	5W	12V(48V(8~36V) 24V(88V(8~75V)	4.5V 4.12V 4.15V		8KVDC	-40~+90°C	1.25x0.87x0.47	
	2x1"		MD015	15W	12V(9~18V) 24V(18~36V) 48V(36~75V)	3V 12V 15V 24V		4KVAC	-40~+90°C	2x1x0.47	
			MD020	20W	12V(9~18V) 24V(18~36V) 48V(36~75V)	3V 12V 15V 24V		4KVAC	-40~+90°C	2x1x0.47	
Photovoltaic/Energy Storage	SIP		DDRH-15-P	15W	150~1500V	3V 12V 15V 24V	Regulated	4KVAC	-40~+80°C	8x2x1"	EAC/CE/UNCE
			DDRH-30-P	30W	150~1500V	12V 15V 24V 48V		4KVAC	-40~+80°C	8.5x2.5x1"	
			DDRH-45-P	45W	150~1500V	12V 15V 24V		4KVAC	-40~+80°C	8.5x2.5x1"	
			DDRH-15-TE	15W	150~1500V	3V 12V 15V 24V		4KVAC	-40~+80°C	4.81x2.25x1.22	
			DDRH-30-TE	30W	150~1500V	12V 15V 24V 48V		4KVAC	-40~+80°C	5.21x2.25x1.22	
			DDRH-45-TE	45W	150~1500V	12V 15V 24V 48V		4KVAC	-40~+80°C	5.21x2.25x1.22	

Selection Table of DC-DC Module Type

Module Type	Series		Power	Vin	Vout	Output Regulation	Input Voltage	Operating Temperature	Dimensions (mm)	Certification
	Module	Model								
DIP24		RSD1W08	8W	12V 24V (9-30V) 24V 48V (18-75V)	±3V 5V 12V 15V		1.8VDC	-40~+85°C	120x60x50	EAC/CE/ UL/CA
		RSD1W08	8W	12V 24V (9-30V) 24V 48V (18-75V)	±5V ±12V ±15V		1.8VDC	-40~+85°C	120x60x50	
		RSD1W10	10W	72V 96V 110V (40-160V)	±3V 3V 12V 15V		30VDC	-40~+85°C	120x60x50	
		RSD1W10	10W	72V 96V 110V (40-160V)	±5V ±12V ±15V		30VDC	-40~+85°C	120x60x50	
Railway 2"x7"		RSD1W20	20W	12V 24V (9-30V) 24V 48V (18-75V) 72V 96V 110V (40-160V)	±3V 5V 12V 15V		1.5VDC (9V typ)	-40~+85°C	2x7x50	EAC/CE/ UL/CA
		RSD1W20	20W	12V 24V (9-30V) 24V 48V (18-75V) 72V 96V 110V (40-160V)	±5V ±12V ±15V		1.5VDC (9V typ)	-40~+85°C	2x7x50	
		RSD1W30W	30W	12V 24V 48V 72V 96V 110V (40-160V)	5V 12V 15V		30VDC	-40~+85°C	2x7x50	EAC/CE/ UL/CA
		RSD1W30W	30W	12V 24V 48V 72V 96V 110V (40-160V)	±12V ±15V ±24V		30VDC	-40~+85°C	2x7x50	
		RSD1W40	40W	12V 24V (9-30V) 24V 48V (18-75V) 72V 96V 110V (40-160V)	±3V 5V 12V 15V 24V 48V	Regulated	1.5VDC (9V typ)	-40~+85°C	2x7x50	EAC/CE/ UL/CA
		RSD1W40	40W	12V 24V (9-30V) 24V 48V (18-75V)	±12V ±15V		1.8VDC	-40~+85°C	2x7x50	
		RSD1W60	60W	12V 24V (9-30V) 24V 48V (18-75V) 72V 96V 110V (40-160V)	±3V 3V 12V 15V 24V 48V		1.0VDC (9V typ)	-40~+85°C	2x7x50	
		RSD1W60	60W	12V 24V (9-30V) 24V 48V (18-75V)	±12V ±15V		1.8VDC	-40~+85°C	2x7x50	
1/4 Brick		RGB10W12	40W	24V 36V 48V 72V 96V 110V (74-160V)	5V 12V 24V 48V 34V		30VDC	-40~+85°C	1.28x145x50	EAC/CE/ UL/CA
		RGB10W12	60W	24V 36V 48V 72V 96V 110V (74-160V)	5V 12V 24V 48V 34V		30VDC	-40~+85°C	1.28x145x50	
		RGB15W12	150W	24V 36V 48V 72V 96V 110V (74-160V)	12V 24V 48V 34V		30VDC	-40~+85°C	1.28x145x50	
		RGB15W12	150W	72V 96V 110V (83-160V)	12V 24V 48V 34V		30VDC	-40~+85°C	1.28x145x50	

Selection Table of DC-DC Module Type

Type	Package	Series		Power	VIN	VOUT	Output Regulation	Input Voltage	Operating Temperature	Conversion (p.u.Watt)	Compliance
		Primary	Secondary								
SIP		N78-PY/PH	3.3-15W	12V(8-30V) 12V(8-30V) 12V(8-27V) 24V(13-30V)	1.5V 1V -5V 5V	Regulated	NA (not isolated)	-40~+85°C	16x10x13mm		EAC, CE/ UNCA
		N78-C/GW	3.3-15W	24V(13-30V) 12V(8-20V) 24V(20-30V) 12V(8-18V)	12V 12V 15V -15V		NA (not isolated)	-40~+85°C	17.5x11.5mm		
SMD		SFOL-01	5.5W	from 12V (8-14V)	from 5V (0.9-5.2V programmable)	Regulated	NA (not isolated)	-40~+85°C	12x12.8x8mm		EAC, CE/ UNCA
		SFOL-11	8.5W	from 12V (8-14V)	from 5V (0.9-5.2V programmable)		NA (not isolated)	-40~+85°C	12.18x12.18x3.5mm		
		S4T1E1	12W	12V(8-18V) 24V(18-30V) 48V(21-25V)	5V 12V 15V		1.5kVDC	-40~+90°C	65'x64'x3.28'		
		SFTN01	1W	5V(4.5-5.5V) 12V(10.8-13.2V) 24V(21.5-25.4V)	5V 5V 12V 15V		1.5kVDC	-40~+85°C (-40~+105°C optional)	65'x64'x3.28'	CB/UL/ EAC, CE/ UNCA	
		SFTN01-N	1W	5V(4.5-5.5V) 12V(10.8-13.2V) 24V(21.5-25.4V)	5V 12V 15V		2kVDC	-40~+100°C	65'x64'x3.28'		
		SFTN01	1W	5V(4.5-5.5V) 12V(10.8-13.2V) 24V(21.5-25.4V)	5V 5V 12V 15V		3kVDC	-40~+90°C (-40~+105°C optional)	65'x64'x3.28'		
		SFTN01-N	1W	5V(4.5-5.5V) 12V(10.8-13.2V) 24V(21.5-25.4V)	5V 5V 12V 15V	Unregulated	3kVDC	-40~+100°C	65'x64'x3.28'	CB/UL/ EAC, CE/ UNCA	
		DETN01	1W	5V(4.5-5.5V) 12V(10.8-13.2V) 24V(21.5-25.4V)	+5V +12V +15V		3kVDC	-40~+90°C (-40~+105°C optional)	65'x64'x3.28'		
		DETN01-N	1W	5V(4.5-5.5V) 12V(10.8-13.2V) 24V(21.5-25.4V)	+5V +12V +15V		3kVDC	-40~+90°C	65'x64'x3.28'		
		S4TNE3	2W	5V(4.5-5.5V) 12V(10.8-13.2V) 24V(21.5-25.4V)	5V 12V 15V		3kVDC	-40~+100°C	65'x64'x3.28'		
		SFTNE3-N	2W	5V(4.5-5.5V) 12V(10.8-13.2V) 24V(21.5-25.4V)	5V 12V 15V		3kVDC	-40~+85°C	65'x64'x3.28'		
		DETNE3	2W	5V(4.5-5.5V) 12V(10.8-13.2V) 24V(21.5-25.4V)	+5V +12V +15V		3kVDC	-40~+100°C (-40~+105°C optional)	65'x64'x3.28'		
		DETNE3-N	2W	5V(4.5-5.5V) 12V(10.8-13.2V) 24V(21.5-25.4V)	+5V +12V +15V		3kVDC	-40~+85°C	65'x64'x3.28'	EAC, CE/ UNCA	
		DETNE3	2W	5V(4.5-5.5V) 12V(10.8-13.2V) 24V(21.5-25.4V)	+5V +12V +15V		3kVDC	-40~+100°C (-40~+105°C optional)	65'x64'x3.28'		
		DETNE3-N	2W	5V(4.5-5.5V) 12V(10.8-13.2V) 24V(21.5-25.4V)	+5V +12V +15V		3kVDC	-40~+85°C	65'x64'x3.28'		

Selection Table of DC-DC Module Type

Type	Package	Series		Power	VIN	VOUT	Output Regulation	Input Voltage	Operating Temperature	Dimensions (L x W x H)	Certification
		Picture	Model								
Telecom / Datacom / Industrial	18		SMD01	1W	5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V)	5V 9V 12V 15V	Unregulated	1.5VDC	-40~+80°C	38mmx22mmx4mm	POE,CE/CN,UL/ROHS
			SMD02	2W	5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V)	5V 12V 15V		1.5VDC	-40~+85°C	54mmx27mmx4mm	
			SMD03	1W	5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V)	5V 12V 15V		1.5VDC	-40~+80°C	38mmx22mmx4mm 3.77x0.87x0.4 2mm	POE,CE/CN,UL/ROHS
			DPM01	1W	5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V)	+5V +10V +15V		1.5VDC	-40~+80°C	38mmx22mmx4mm 3.77x0.87x0.4 2mm	
			SMD012	2W	5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V)	5V 12V 15V		1.5VDC	-40~+105°C	38mmx22mmx4mm	
			DPM012	2W	5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V)	+5V +10V +15V		1.5VDC	-40~+105°C	38mmx22mmx4mm	
			SMD04	3W	5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V)	5V 12V 15V	Regulated	1.5VDC	-40~+90°C	47mmx33mmx4mm	POE,CE/CN,UL/ROHS
			DPM04	1W	5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V) 48V(43.2~52.8V)	5V 12V 15V		1.5VDC	-40~+90°C	38mmx22mmx4mm	POE,CE/CN,UL/ROHS
			DPM041	1W	5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V) 48V(43.2~52.8V)	+12V +15V		1.5VDC	-40~+80°C	38mmx22mmx4mm	
			SMD05	1W	12V(10.8~13.2V) 24V(21.6~26.4V) 48V(43.2~52.8V)	5V 12V 15V		1.5VDC	-40~+80°C	38mmx22mmx4mm	
			SMD052	2W	5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V) 48V(43.2~52.8V)	3.3V 5V 12V 15V		1.5VDC	-40~+80°C	38mmx22mmx4mm	
			DPM05	2W	5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V) 48V(43.2~52.8V)	+5V +12V +15V		1.5VDC	-40~+80°C	38mmx22mmx4mm	EAC,CE/CN,UL/ROHS
			SMDW05	1W	12V(10.8~13.2V) 24V(21.6~26.4V) 48V(43.2~52.8V)	3.3V 5V 12V 15V		1.5VDC	-40~+85°C	38mmx22mmx4mm	
			DPMW05	1W	12V(10.8~13.2V) 24V(21.6~26.4V) 48V(43.2~52.8V)	+5V +12V +15V		1.5VDC	-40~+85°C	38mmx22mmx4mm	
			SMDW06	3W	12V(10.8~13.2V) 24V(21.6~26.4V) 48V(43.2~52.8V)	3.3V 5V 12V 15V		1.5VDC	-40~+85°C	38mmx22mmx4mm	
			DPMW06	3W	12V(10.8~13.2V) 24V(21.6~26.4V) 48V(43.2~52.8V)	+5V +12V +15V		1.5VDC	-40~+85°C	38mmx22mmx4mm	
			SMD08	3W	12V(10.8~13.2V) 24V(21.6~26.4V) 48V(43.2~52.8V)	3.3V 5V 12V 15V 24V		1.5VDC	-40~+80°C	38mmx22mmx4mm	
			DPM08	3W	12V(10.8~13.2V) 24V(21.6~26.4V) 48V(43.2~52.8V)	+5V +12V +15V		1.5VDC	-40~+80°C	38mmx22mmx4mm	

Selection Table of DC-DC Module Type

Type	Package	Series		Type	In	Out	Output Regulation	Input Voltage	Operating Temperature	Efficiency (%)	Certification
		Pin脚	Module								
Telecom / Datacom / Industrial	DIP16		SAS	0.5W	5V (4.5~5.5V) 12V (10.8~13.2V) 24V (21.6~26.4V) 48V (43.2~52.8V)	5V 9V 12V 15V	Unregulated	18VDC	-25~+71°C	88%~93%~93%	FCC/EAC/CE/UL/CA
	DIP16		1W5B1	1W	5V (4.5~5.5V) 12V (10.8~13.2V) 24V (21.6~26.4V) 48V (43.2~52.8V)	5V 9V 12V 15V		18VDC	-25~+71°C	88%~93%~93%	
	DIP7		5WAB1	1W	5V (4.5~5.5V) 12V (10.8~13.2V) 24V (21.6~26.4V)	5V 9V 12V 15V		18VDC	-40~+88°C	83%~94%~93%	
	DIP16		5UCB1	3W	12V (9~18V) 24V (18~36V) 48V (36~72V)	5V 12V 15V	Regulated	18VDC	-40~+85°C	88%~93%~93%	FCC/EAC/CE/UL/CA
	DIP16		7UCB1	3W	12V (9~18V) 24V (18~36V) 48V (36~72V)	+5V +12V +15V		18VDC	-40~+85°C	88%~93%~93%	
Telecom / Datacom / Industrial	DIP24		1CWH03	3W	5V (4.5~5.5V) 12V (9~18V) 24V (18~36V) 48V (36~72V)	1.2V 5V 12V 15V	Regulated	18VDC	-40~+88°C	1.25%~0.8%~0.4%	FCC/EAC/CE/UL/CA
			1CWN03	3W	5V (4.5~5.5V) 12V (9~18V) 24V (18~36V) 48V (36~72V)	+5V +12V +15V		18VDC	-40~+88°C	1.25%~0.8%~0.4%	
			1CWH06	6W	12V (9~18V) 24V (18~36V) 48V (36~72V)	1.2V 5V 12V 15V		18VDC	-40~+88°C	1.25%~0.8%~0.4%	
			1CWN06	6W	12V (9~18V) 24V (18~36V) 48V (36~72V)	+5V +12V +15V		18VDC	-40~+88°C	1.25%~0.8%~0.4%	
			1CWH8	8W	12V (9~18V) 24V (18~36V) 48V (36~72V)	5V 12V 15V		18VDC	-40~+71°C	1.25%~0.8%~0.4%	
			1CWH8	8W	12V (9~18V) 24V (18~36V) 48V (36~72V)	+5V +12V +15V		18VDC	-40~+71°C	1.25%~0.8%~0.4%	
			1CWH10	10W	12V (9~18V) 24V (18~36V) 48V (36~72V)	5V 12V 15V		18VDC	-40~+71°C	1.25%~0.8%~0.4%	
			1CWH12	12W	12V (9~18V) 24V (18~36V) 48V (36~72V)	+5V +12V +15V		18VDC	-40~+71°C	1.25%~0.8%~0.4%	
			1CWH20	20W	12V (9~18V) 24V (18~36V) 48V (36~72V)	5V 12V 15V		18VDC	-40~+88°C	1.25%~0.8%~0.4%	
			1CWH06	6W	12V 24V (9~36V) 24V 48V (18~72V)	1.2V 5V 9V 12V 15V 24V		18VDC	-40~+85°C	1%~1%~0.4%	
Telecom	17x17		10CWH03	6W	12V 24V (9~36V) 24V 48V (18~72V)	+5V +12V +15V +24V	Regulated	18VDC	-40~+88°C	1%~1%~0.4%	FCC/EAC/CE/UL/CA
			10CWH06	10W	5V (4.5~5.5V) 12V (9~18V) 24V (18~36V) 48V (36~72V)	1.2V 5V 12V 15V		18VDC	-40~+88°C	1%~1%~0.4%	
			10CWH10	10W	5V (4.5~5.5V) 12V (9~18V) 24V (18~36V) 48V (36~72V)	+5V +12V +15V +19V		18VDC	-40~+88°C	1%~1%~0.4%	
			10CWH10	10W	5V (4.5~5.5V) 12V (9~18V) 24V (18~36V) 48V (36~72V)	+5V +12V +15V +19V		18VDC	-40~+88°C	1%~1%~0.4%	

Selection Table of DC-DC Module Type

Type	Package	Series		Power	Input	Output	100% Regulation	Input Voltage	Operating Temperature	Conversion Efficiency	Certification
		400 pin	800 pin								
Telecom / Datacom / Industrial	1.7x1.7"		SKMW11	11W	12V/24V (9-30V) 24V/48V (18-75V)	3.3V 5V 12V 15V	Regulated	10VDC	-40~+85°C	7x7x0.8"	EAC/CE/UKCA
			D6MW11	11W	12V/24V (9-30V) 24V/48V (18-75V)	3.3V ±12V ±15V		10VDC	-40~+85°C	7x7x0.8"	
			SKMW20	20W	12V/24V (9-30V) 24V/48V (18-75V)	3.3V 5V 12V 15V		150VDC	-40~+85°C	7x7x0.8"	
			D6MW20	20W	12V/24V (9-30V) 24V/48V (18-75V)	±12V ±15V		150VDC	-40~+85°C	7x7x0.8"	
			SKMW30	30W	12V/24V (9-30V) 24V/48V (18-75V)	3.3V 5V 12V 15V		150VDC	-40~+85°C	7x7x0.8"	
			D6MW30	30W	12V/24V (9-30V) 24V/48V (18-75V)	±12V ±15V		150VDC	-40~+85°C	7x7x0.8"	
	2"x1"		SLW03	3W	12V (9-18V) 24V (18-30V) 48V (36-72V)	5V 9V 12V 15V		10VDC	-25~+75°C	2x1x0.4"	PC/ESD/CE/UKCA
			DLW03	3W	12V (9-18V) 24V (18-30V) 48V (36-72V)	±5V ±12V ±15V		10VDC	-25~+75°C	2x1x0.4"	
			SK110	10W	12V (9-18V) 24V (18-30V) 48V (36-72V)	5V 12V 15V 24V		10VDC	-25~+75°C	2x1x0.4"	
			D6E110	10W	12V (9-18V) 24V (18-30V) 48V (36-72V)	±5V ±12V ±15V ±24V		10VDC	-25~+75°C	2x1x0.4"	
			SKA15	15W	12V (9-18V) 24V (18-30V) 48V (36-72V)	3.3V 5V 12V 15V		10VDC	-40~+75°C	2x1x0.4"	
			D6A15	15W	12V (9-18V) 24V (18-30V) 48V (36-72V)	±5V ±12V ±15V		10VDC	-40~+75°C	2x1x0.4"	
			SLA10	20W	12V (9-18V) 24V (18-30V) 48V (36-72V)	5V 12V 15V		150VDC	-40~+85°C	2x1x0.4"	
			SKM30	30W	12V (9-18V) 24V (18-30V) 48V (36-72V)	5V 12V 15V		150VDC	-40~+75°C	2x1x0.4"	
			SCM30-4	30W	12V/24V (9-18V) 24V/48V (18-72V)	5V 12V 15V		30VDC	-40~+85°C	2x1x0.4"	
			SKM50	50W	24V (18-30V) 48V (36-72V)	5V 12V 15V		130VDC	-40~+75°C	2x1x0.4"	
	2"x1"		SCE15	15W	12V (9-18V) 24V (18-30V) 48V (36-72V)	5V 12V 15V 24V	Regulated	10VDC	-25~+75°C	2x2x0.4"	PC/ESD/CE/UKCA
			DCE15	15W	12V (9-18V) 24V (18-30V) 48V (36-72V)	±5V ±12V ±15V ±24V		10VDC	-25~+75°C	2x2x0.4"	
			D6A30	30W	12V (9-18V) 24V (18-30V) 48V (36-72V)	±5V ±12V ±15V		10VDC	-40~+85°C	2x2x0.4"	
			TKA10	10W	12V (9-18V) 24V (18-30V) 48V (36-72V)	5V/±12V 5V/±15V		10VDC	-40~+85°C	2x2x0.4"	

Selection Table of DC-DC Module Type

Type	Form	Series		Power	Vin	Vout	Output Regulation	Full Load Voltage	Operating Temperature	Dimensions (mm)	Certification
		Package	Model								
Telecom / Datacom / Industrial	2.5W		50A40	40W	12V(9-18V) 24V(18-30V) 48V(36-72V)	5V 12V 15V	Regulated	1.50VDC	-40~+80°C	27x24x54F	FCC/CE/ UL/ENCA
			50A60	60W	12V(9-18V) 24V(18-30V) 48V(36-72V)	5V 12V 15V		1.50VDC	-40~+70°C	27x24x54F	
	1/2 Brick		50H575	75W	12V(9-18V) 24V(18-30V) 48V(36-72V)	5V 12V 24V		1.50VDC	-40~+100°C	228x24x83F	UL/CE/ UL/ENCA
			50H100	100W	12V(9-18V) 24V(18-30V) 48V(36-72V)	5V 12V 24V		1.50VDC	-40~+100°C	228x24x83F	
			50H150	150W	48V(36-72V)	5V 12V 24V		1.50VDC	-40~+100°C	228x24x83F	
LED	NA		LED-300-700L	NA	9-34V	2-32V	NA	NA	-40~+80°C	689x907x83F	FCC/CE/ UL/ENCA
			LED-300-700LW		9-34V	2-32V			-40~+80°C	689x907x83F	
			LED-300-700LS		9-32V	2-32V			-40~+80°C	79x9475x938F	
			LED-300-850L		9-30V	2-40V			-40~+70°C	1.25x9.87x0.48F	
			LED-500L		9-30V	2-32V			-40~+70°C	1.25x9.87x0.48F	
			LED-600L		9-30V	2-30V			-40~+70°C	1.25x9.87x0.48F	
			LED-300-850LM		9-30V	2-40V			-40~+70°C	1.25x9.87x0.48F	
			LED-500CW		9-30V	2-32V			-40~+70°C	1.25x9.87x0.48F	
			LED-600CW		9-30V	2-30V			-40~+70°C	1.25x9.87x0.48F	
			LED-1400H-PA		6-50V	2-42V			-40~+80°C	1.65x9.87x0.38F	UL/CE/ UL/ENCA
			LED-1400H-PA		6-50V	2-42V			-40~+80°C	1.65x9.87x0.4F	
			LED-1400H-CA		6-80V	2-30V			-40~+80°C	1.65x9.87x0.4F	
			LED-1400H-WDA		6-50V	2-45V			-40~+80°C	1.65x9.87x0.4F	
			LED-1400H-WDA		6-80V	2-30V			-40~+80°C	1.65x9.87x0.4F	
			NUD-100-1000H		10-50V	3-52V			-40~+50°C	1.26x9.87x0.48F	
			NUD-1200-1400H		10-50V	3-46V			-40~+50°C	1.26x9.87x0.48F	
			NUD-150-1800HW		10-50V	3-52V			-40~+50°C	1.26x9.87x0.48F	
			NUD-1200-1400HW		10-50V	3-46V			-40~+50°C	1.26x9.87x0.48F	
			NHCD-400-HW		200-400V	250V			-40~+80°C	1.26x9.87x0.48F	

VFD (Variable Frequency Drive) 150-750W



VFD-200C-230
VFD-350C-230
VFD-750C-230



VFD-250P-230
VFD-350P-230
On Board



VFD-150P-48
VFD-250P-48
VFD-350P-48
PCB

Features

- 80-354 VAC Input, **built in PFC function** (VFD-200C/150C/750C/250P/350P-230)
- 20-55 VDC Input (VFD-150P/250P/350P-48)
- Driver efficiency up to 93%
- **Fanless design**
- High surge current **300%** up to 5 sec.
- Multi-Sensors: Current, DC Bus Voltage, Temperature
- Suitable for driving **BLDC brushless motors**; it can be used in HVAC systems, water pumps, air conditioners, medical treatment, AVG, home appliances, etc.
- -30~+70 °C wide operating temperature
- Optional control card
- EN61800-5/3 certified
- 3 years warranty

Models

CB EAC CE UK CA

Model No.	VFD-200C-230	VFD-350C-230	VFD-750C-230
Appearance	Metal Case		
Vin	80-354VAC		
Watt	200W	300W	750W
Vout	3 Phase U/V/W, line to line 0-240 VAC		
Dimension (mm)	146x55x26	146x62x31	150x100x41

Model No.	VFD-250P-230	VFD-350P-230	VFD-150P-48	VFD-250P-48	VFD-350P-48
Appearance	PCB On Board Type (5" x 3")		PCB On Board Type (4" x 2")		
Vin	80-354VAC		20-55VDC		
Watt	250W	350W	150W	250W	350W
Vout	3 Phase U/V/W, line to line 0-240 VAC				
Dimension (mm)	127x76.2x35		101.6x50.8x25.6		

Model Encoding

VFD- 200C-230

