

INDUSTRIAL DIN RAIL POWER SUPPLY 240W

This Din rail style industrial power supply can be mounted on every standard industrial din rail rack. It can be used worldwide and has the maximum power voltage of 240W. It is used in several applications: Information Network, Transportation Systems, Electric System, Industrial Control, Instrumentation, Consumer Electronics, Communication Apparats, Finance Apparats, Navigation Gear, Military Sectors, and so on.

Key Features

- Rail-Style Power Supply with P.F.C function
- Universal Input:90-264VAC
- Naturally Air-cooled
- Protection: short circuit/over load/over voltage/over temperature
- Green LED indicator for power on, Red LED indicator for over load/over voltage.
- Dimensions: 130x110x90mm



Electrical Specifications

MODEL		BSD-PS240-12	BSD-PS240-24	BSD-PS240-48
Max. Output Wattage		2400W	240W	240W
Input	Voltage **	90-264VAC or 120-370 VDC		
	Frequency	47-63 Hz		
	Current(Full load)	3.0 A max(115VAC) 1.5A max.(230VAC)		
	Inrush Current	<30 A max.(115VAC)/35A max.(230VAC)		
	Leakage Current	<3.5mA/240VAC		
	Power Factor	PF>0.98 (115VAC), PF>0.94 (230VAC) at full load		
Output	Voltage	12VDC	24VDC	48VDC
	Voltage Accuracy	± 1%	± 1%	± 1%
	Max. Current	10A	5A	2.5A
	Line Regulation	± 0.5%		
	Load Regulation	± 1%		
	Minimum Load	0%		
	Typical Efficiency	85%	86%	87%
	Adjustable Extent of Output Voltage	10-16V	22-28V	46-53V
	Ripple & Noise (max) ***	100mV	100mV	150 mV
	Hold-up Time	20 ms min		
Protection	Over Load	105-150% rated output power Protection type: Auto recovery		
	Over Voltage	18-22V	30-34V	54-58V
	Short Circuit	Protection type: Auto recovery		
	Over Temperature	(90°C ± 5°C) detect on heat sink of power transistor Protection type: Automatic resetting Type		

BSD-PS240 Series

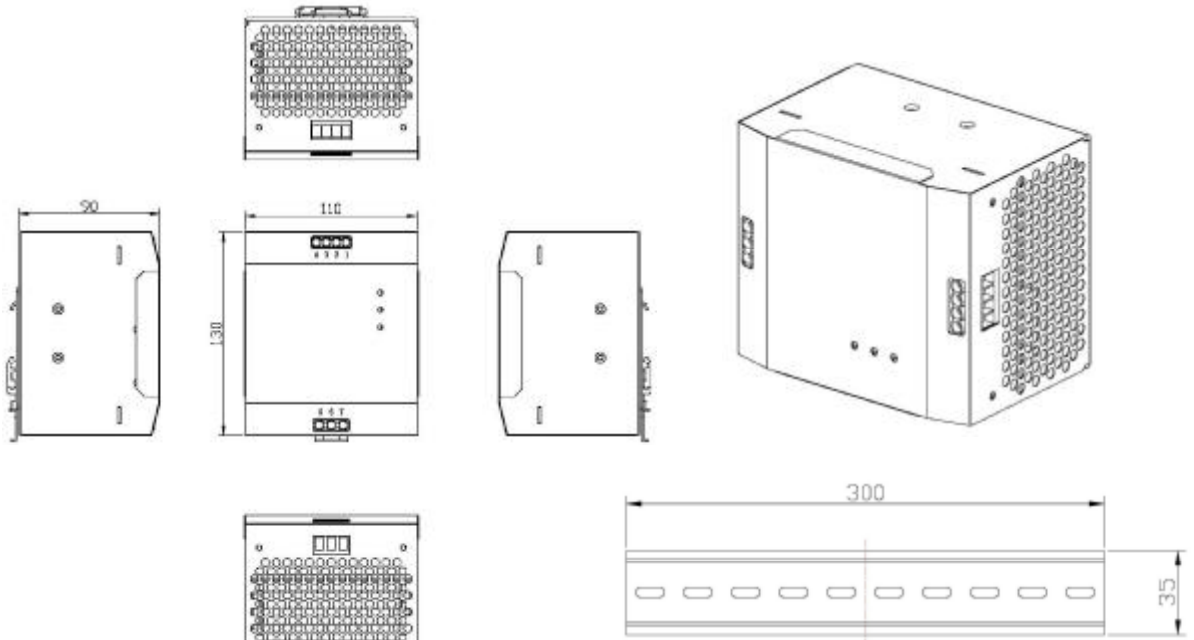
Electrical Specifications

Electric Strength	Input-Output	3000VAC
	Input-FG	1500VAC
	Output-FG	500VAC
Isolation Resistance	Input-Output, Input-FG, Output-FG:100Mohms/500VDC	
Environment	Operating Temperature	-10°C to +70°C (Refer to the Derating Curve Picture)
	Storage Temperature	-25°C to +85°C
	Temperature Coefficient	± 0.03%/°C (0°C < T < 50°C)
	Humidity	95%RH
	MTBF	> 50,000h @25°C (MIL-HDBK-217F)
	Vibration	10-500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes
Feature	Dimension (LxWxH)	130x110x90mm
	Weight	1040g
	Installation	Din Rail TS-35mm
	Cooling Method	Naturally Air-cooled
Safety & EMC	Safety standards	UL60950, EN60950
	EMI (Conduction & Radiation Disturbance)	EN 55011 class B EN 55022 class B
	EMS Immunity	EN55024 EN61000-6-2
	Harmonic Current	EN61000-3-2
Note	<p>*All parameters are measured at rated input voltage 230VAC and in the ambient temperature 25°C</p> <p>** Please refer to the Derating Curve for more details if you made the products under low input voltage.</p> <p>***. Ripple & noise are measured by using a 300mm twisted pair-wire which paralleled of a 0.1uf and 47uf capacitor, at 20MHz of bandwidth with Oscilloscope.</p>	

Ordering Information

BSD-PS240-12	Industrial Din Rail Power Supply 240W 12 VDC
BSD-PS240-24	Industrial Din Rail Power Supply 240W 24 VDC
BSD-PS240-48	Industrial Din Rail Power Supply 240W 48 VDC

Mechanical Specifications



Unit: mm

Pin No.	Assignment	Pin No	Assignment
1,2	DC OUTPUT -V	5	AC/L
3,4	DC OUTPUT +V	6	AC/N
		7	FG

Derating Curve

