

Power Supply (SMPS)

SSD



SALIENT FEATURES

- ◆ Under / Over Voltage Protection
- ◆ Fully Isolated Mounting Type
- ◆ Detachable Connectors
- ◆ Adjustable Output Voltage
- ◆ Surge and Inrush Protection

Model Number Legend

SSD - □ - □□ □□

1 2 3 4

1. Series

SSD

2. Output Voltage

12DC : 12 VDC

24DC : 24 VDC

3. Power Rating

60W : 60 Watts

120W : 120 Watts

240W : 240 Watts

4. Mounting

D : Dinrail

S : Surface

Example:

SSD-24DC-240WS

SSD Series - 24VDC Output Voltage, 240Watts, Surface Mounting

NOTE: Contact us for models not shown in catalogue

Product Highlights

◆ Power Supply For Demanding Applications

The SSD is most suited for highly sensitive equipments and sensors due to its stable Voltage and power output even under the most adverse conditions. The SMPS has built-in protection against inrush current, overload, overvoltage and high load swings. State of the art design withstands harsh industrial environments; temperature range from -20°C to 70°C. The SMPS is shock and vibration resistant according to IEC 61000-4-5. Built-in Thermal overload function to ensure bouncing of the SMPS till conditions are back to normal.

- Sensing
- Control
- Weighing
- Automation
- Power Supplies
- Switching
- Tower Lamps
- Cables & Electrodes
- Accessories

Product Highlights

◆ Overload Protection

The SSD series SMPS offers overload protection (OLP/ OCP) to prevent damages resulting from overcurrent. When the rated current is higher than 150%, the output voltage drops automatically. When the power demand exceeds the maximum limit and reaches UVLO (Under voltage point), the SMPS will enter bouncing mode. Once the overload is eliminated, the output voltage will return to its normal volume.

◆ Isolation

Input & Output Isolation is provided in addition to O/P Voltage adjustment with potentiometer.

◆ Thermal Protection

When the overcurrent or overvoltage persists for a period of time and causes high temperature, the thermal protection will force the power supply to enter the bouncing mode until the fault is rectified.

◆ Surge and Dynamic Load

The power supply is capable of enduring up to 3 seconds of surge load of 150% of the output voltage $\pm 5\%$ of limit. The power supply also withstands up to 220% inrush current (startup current) when connecting the AC input to the power supply.

The SSD series power supply is capable of accepting a dynamic change of load from 0-100% with a very minimal output variation of $\pm 5\%$ of limit.

Ratings and Specifications

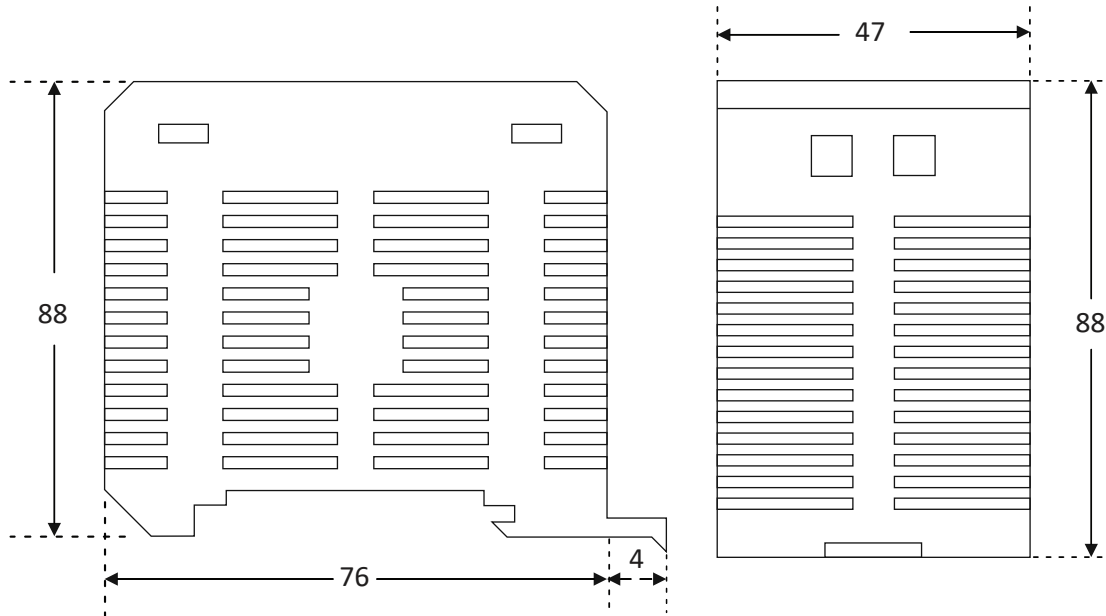
Power Rating	60W	120W	60W	120W	240W
Model	SSD-12DC-60WD	SSD-12DC-120WD	SSD-24DC-60WD	SSD-24DC-120WD	SSD-24DC-120WD /S
Output Voltage	12VDC	12VDC	24VDC	24VDC	24VDC
Rated Current	5A	10A	2.5A	5A	10A
Efficiency	85%		86%		
Input Voltage	170-270VAC				
Input Frequency	47-63Hz				
Input Current @230VAC	0.3A	0.6A	0.3A	0.6A	1.2A
Power Factor (typical)	0.95				
Leakage Current	<3.5ma (@ 230 VAC)				
Inrush Current	35 A max.				
Ripple	1%				
Voltage Range	11.5~14VDC		2.35~27VDC		
Output Indicator	YES (LED Green)				
Startup Time	20ms				
Thermal Derating	After 50° C - 2.5%/1° C				
Overload Protection	Yes				
MTBF	100,000 hrs.				
Shock Resistance	150m/s X, Y, Z three directions for 3 times to destruction				
Vibration Resistance	10 to 200 Hz, 0.30 mm in X, Y, Z directions for 2 hours				
Ambient Temperature	-20° to 70° C (non-freezing; non-condensing)				
Isolation Standards	I/P-O/P -3000V, IEC950, CISPR22A				
EMI / EMC	Surge - IEC 61000 4-5 LEVEL3; ESD - IEC 6100 4-2 AIR 8KV, Contact 4KV Criteria A; EFT - IEC 6100 4-4 2KV on Input Criteria A				

Dimension Drawing

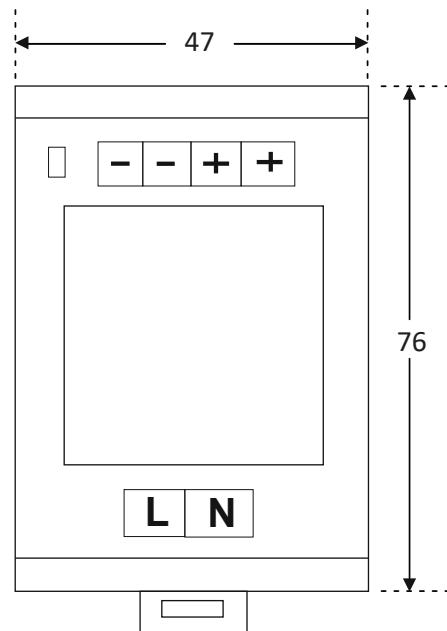
SSD

- ◆ Plastic Box (Dinrail) : SSD-12DC-60WD , SSD-12DC-120WD
SSD-24DC-60WD , SSD-24DC-120WD

SIDE VIEW



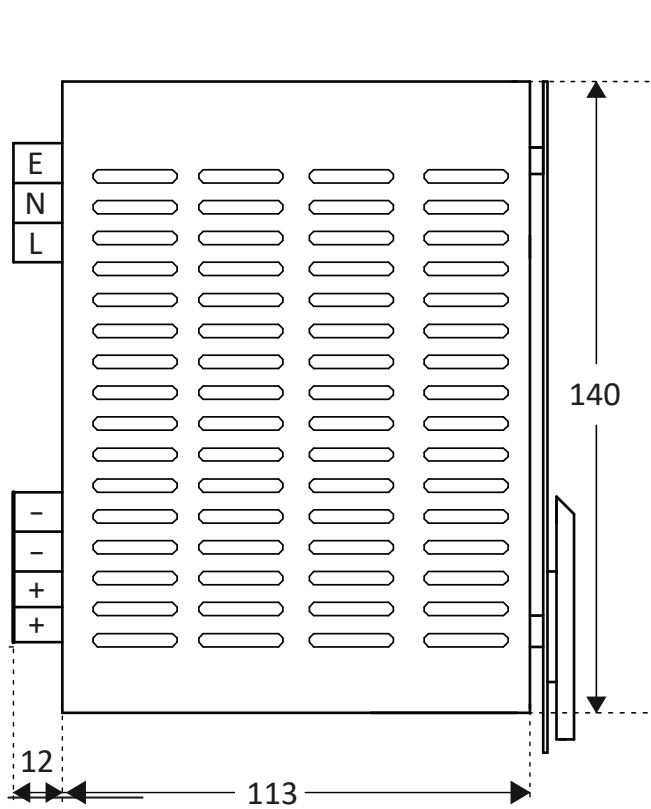
TOP VIEW



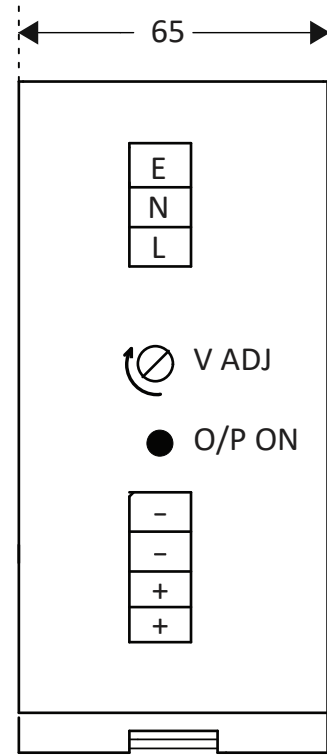
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◆ Metal Box (Dinrail) : SSD-24DC-240WD

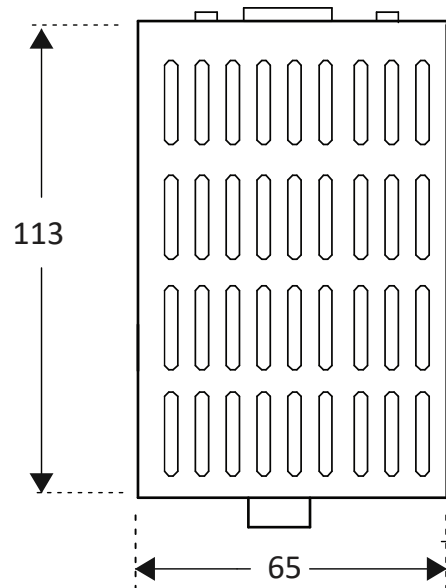
SIDE VIEW



FRONT VIEW



TOP VIEW



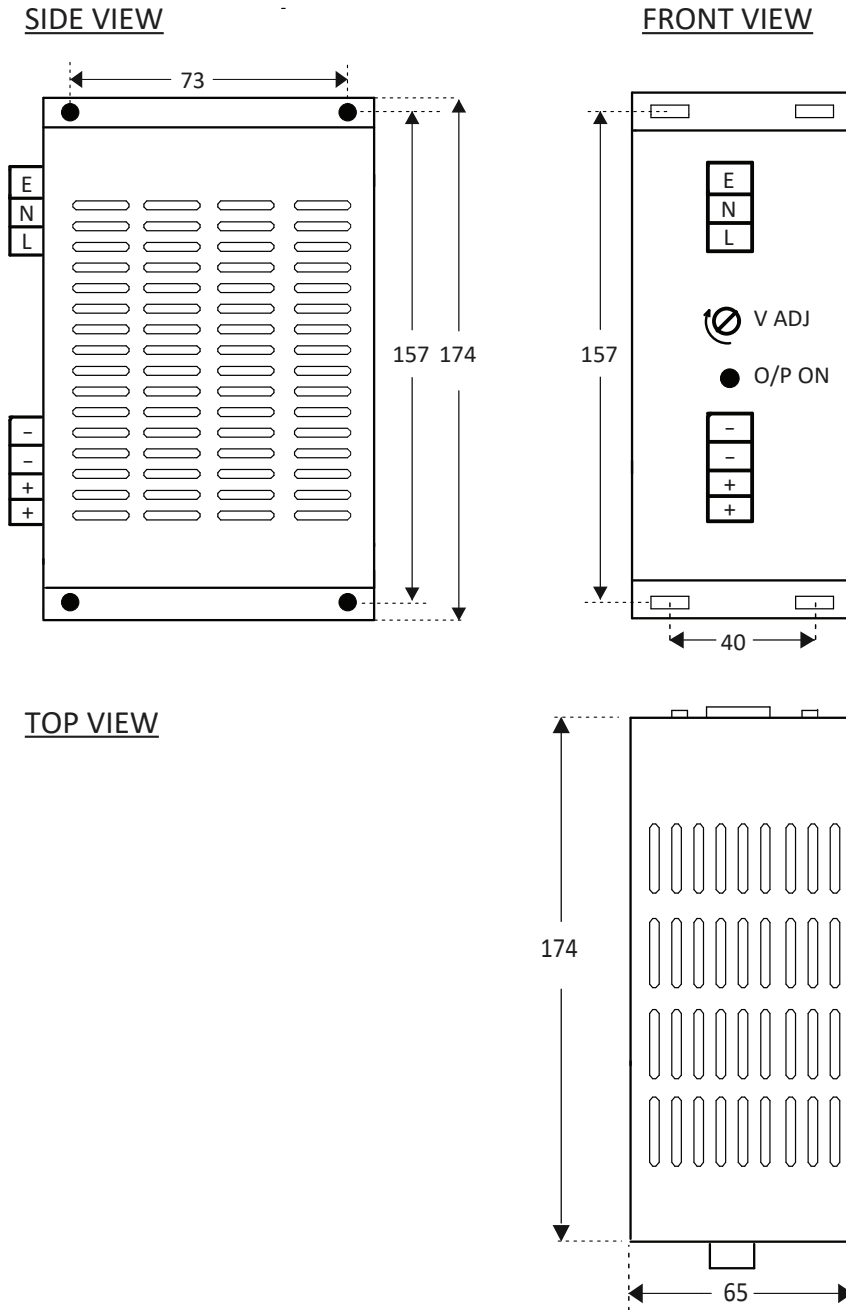
All dimensions are in mm

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Dimension Drawing

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◆ Metal Box (Surface) : SSD-24DC-240WS



All dimensions are in mm

Cat. No. SSD-A23

Exclusively Represented by:

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 specifications are subject to change without notice

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