

### 350 Watts

- Rugged Industrial Construction
- -40 °C to +70 °C Operation
- Screw Terminals
- High Efficiency
- Remote On/Off
- ITE/Industrial & Medical Approvals
- Low Leakage Current
- Class B Emissions
- 3 Year Warranty



#### Dimensions:

**SMP350:**  
3.6 x 7.0 x 1.7" (91.4 x 177.8 x 43.1 mm)

The SMP350 series provides a range of rugged, enclosed, 300 – 350W supplies with integral fan, screw terminal connections and a wide operating temperature range of -40 °C to +70 °C ideally suited to a wide range of industrial applications. The SMP350 series features high efficiency and class B EMI emissions for ease of integration into the end application and offers remote On/Off to simplify system control. Packaged in a 3.6" x 7" x 1.7" enclosure the series offers power densities up to 13 W/in<sup>3</sup> providing a compact, high efficiency, low noise power solution.

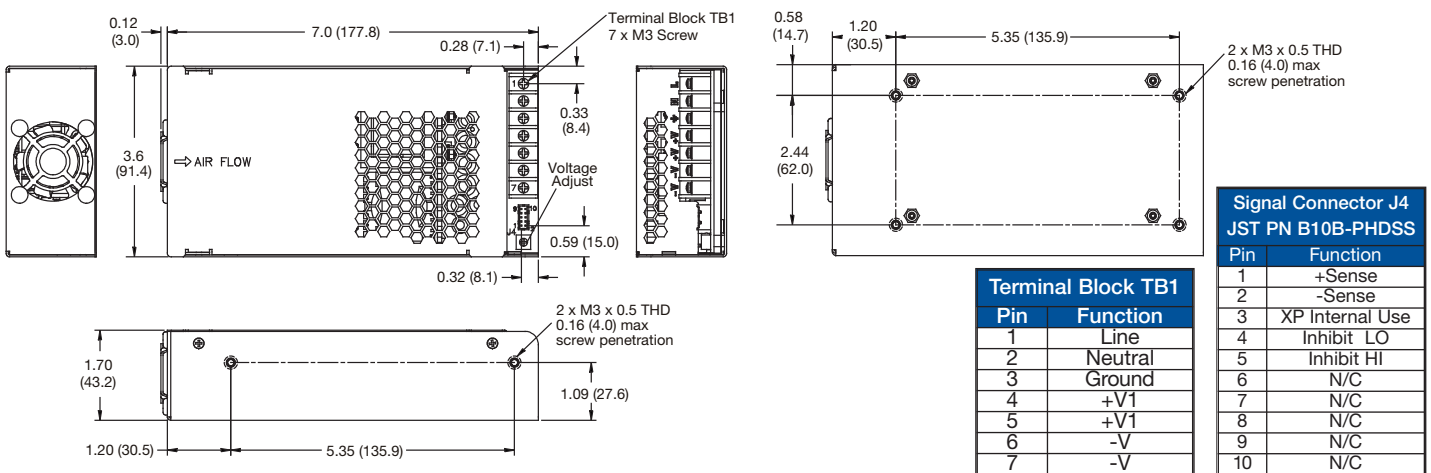
### Models & Ratings

Output Voltage V1	90-180 VAC		180-264 VAC		Model Number <sup>(1)</sup>
	Output Current	Output Power	Output Current	Output Power	
12.0 VDC	25.00 A	300 W	25.00 A	300 W	SMP350PS12
15.0 VDC	20.70 A	310 W	22.00 A	330 W	SMP350PS15
18.0 VDC	17.80 A	320 W	19.40 A	350 W	SMP350PS18
24.0 VDC	13.75 A	330 W	14.60 A	350 W	SMP350PS24
28.0 VDC	11.80 A	330 W	12.50 A	350 W	SMP350PS28
36.0 VDC	9.20 A	330 W	9.70 A	350 W	SMP350PS36
48.0 VDC	7.30 A	350 W	7.30 A	350 W	SMP350PS48

#### Notes

1. For reduced leakage current versions (<300 µA) contact sales.

### Mechanical Details



#### Notes

- All dimensions in inches (mm).
- Tolerance .xx = ±0.02 (0.50); .xxx = ±0.01 (0.25)
- Weight: 1.5 lbs (0.68 kg)
- J4 mates with JST Housing Pn. PHDR-10VS and with JST SPHD-001T-P0.5 crimp terminals.

### Input

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Input Voltage	85		264	VAC	Derate below 90 VAC to 90% load at 85 VAC
Input Frequency	47		63	Hz	
Power Factor		0.9			EN6100-3-2 for class A, Class C >125 W
Input Current			4.7	A	90 VAC, 100% load
No Load Input Power		1.25/2.6		W	115 VAC/230 VAC when inhibited
Inrush Current		130		A	230 VAC, cold start 25 °C
Earth Leakage Current			500	µA	264 VAC/60 Hz. For reduced leakage current medical versions (<300 µA) contact sales.
Fuse Protection	F5.0A/250V fitted in both line and neutral				

### Output

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Output Voltage	12		48	VDC	See Models and Ratings table
Initial Set Accuracy			±1	%	Of nominal at 50% load
Output Voltage Adjustment -V1	±2			%	
Load Regulation			1	%	
Line Regulation			±0.5	%	Of nominal, for input voltage range of 90-264 VAC
Ripple and Noise			1	%	Pk-pk with 20 MHz bandwidth, 1.5% 12 V models
Hold Up Time	10			ms	
Minimum Load					No minimum load required
Transient Response			<4	%	Deviation with a 50%-75%-50% load change. Output returns to within 1% in less than 500 µs
Overload Protection - V1	110		150	%	Trip and Restart
Overvoltage Protection - V1	115		140	%	Cycle AC to reset
Overtemperature Protection					Thermal protection fitted
Remote On/Off	<0.4 V to switch off, open cct or >4 V to switch on				
Temperature Coefficient			0.02	%/°C	After 20 minute warm up
Start Up Time			1	s	115/230 VAC, full load
Overshoot			5	%	

### General

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Efficiency	87	90	93	%	See figures 2 – 4 below
Isolation: Input to Output Input to Ground Output to Ground	4000			VAC	2 x MOPP
	1500			VAC	1 x MOPP
	1500			VAC	1 x MOPP
Switching Frequency	60		200	kHz	PFC
	90		150		Main Converter
Mean Time Between Failure		570		kHrs	MIL-HDBK-217F, notice 2, +25 °C GB
Power Density			13	W/in <sup>3</sup>	
Weight		1.5 (0.68)		lb (kg)	