SHP350 Series

- 420 W High Line Output Power
- Rugged Industrial Construction
- Variable Speed Fan for Noise Reduction
- –40 °C to +70 °C Operation
- 5 V Standby
- AC OK, Remote On/Off and Active Current Share
- Screw Terminals
- SEMI F47 Compliant
- 3 Year Warranty

The SHP350 AC-DC power supply provides upto 420 W of output power in a compact rugged mechanical package, suitable for a range of industrial applications.

The unit comprises of a main output with voltages from 12-48 VDC and a 5 VDC standby supply which can be utilitsed with the signals and control features of the unit to provide detection of loss of AC input and remote on/off control.

Multiple units can be used in parallel via the current share facility, providing higher power solutions. Inherently low earth leakage current, and conducted EMC compliance to Class B also simplify higher power system design.

Packaged in a compact 7” (178 mm) x 3.6” (91 mm) x 2.1” (53 mm) and carrying IEC60950 family safety approvals, the SHP350 has a load dependant variable speed fan, is fully protected with overtemperature shutdown and provides -40 ºC start up and full power from -20 ºC to 50 ºC and 50% power at +70 ºC.

Models and Ratings

Output Voltage V1	Output Current V1	Standby Supply V2	Output Power		Model Number
			Continuous	Peak	
12 V	26.5 A	5 V / 0.2 A	318 W		SHP350PS12
15 V	22.0 A	5 V / 0.2 A	330 W		SHP350PS15
24 V	14.5 A	5 V / 0.2 A	348 W	417 W	SHP350PS24
28 V	12.5 A	5 V / 0.2 A	350 W	420 W	SHP350PS28
36 V	9.7 A	5 V / 0.2 A	350 W	420 W	SHP350PS36
48 V	7.3 A	5 V / 0.2 A	350 W	420 W	SHP350PS48

Input Characteristics

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Input Voltage - Operating	85	115/230	264	VAC	Derate output power < 90 VAC. See fig. 1.
Input Frequency	47	50/60	63	Hz	
Power Factor		>0.9			EN61000-3-2 class A compliant, Class C compliant ≥10% load
Input Current - No Load		0.15		A	
Input Current - Full Load (350 W)		3.8/2.1		A	115/230 VAC
Inrush Current			60	A	230 VAC cold start, 25 °C
Earth Leakage Current		150/260	500	µA	115/230 VAC/50 Hz (Typ.), 264 VAC/60 Hz (Max.)
Input Protection	T10 A/250 V internal fuse in both lines				

Input Derating Curve
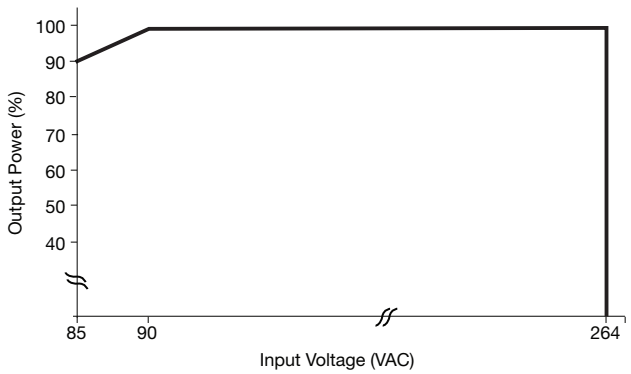
Figure 1