

# 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 utilised 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 °C start up and full power from -20 °C to 50 °C and 50% power at +70 °C.

## 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,<br>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

