

350 Watt, USP Series, U-Channel PFC Series, (Single Output)

ALL PSU LTD
Electronic Power Solutions

- Universal Input with PFC
- High Efficiency / Reliability
- Low Profile (Fits 1U Systems)
- 100% Full Load Burn In
- Short Circuit, Over Load, Over Voltage, Over Temp Protection
- Full Approvals : UL/CUL/TUV/CB/CE
- 3 Year Warranty
- 300 Watt Convection Cooled Rating



Specification

Input Voltage.....	90~264 VAC, 47~63 Hz, (or 120~370 VDC).
Power Factor.....	0.94 @ 230 VAC (3.3 Volt version) 0.98 @ 115 VAC, 0.93 @ 230 VAC (All other output voltages)
Output Voltage.....	See table below (plus adjustment range)
Over Load Protection.....	105~130% constant current, auto recovery
Over Voltage Protection.....	110~140% of output voltage (dependant on model)
Line Regulation.....	+/-0.5% typical
Load Regulation.....	+/-1.0% typical (+/-2.0% for 3.3 V & 5 V models)
Set Up, Rise, Hold Up Time.....	2000 ms, 100 ms, 12-16 ms @ 230 VAC
Isolation Voltage.....	I/P-O/P: 3 kVAC, I/P-FG: 1.5 kVAC, O/P-FG: 0.5 kVAC
Operating Temperature.....	-10 °C ~ +65 °C (derates above 45 °C, 3.3 & 5V above 40 °C)
Safety Standards.....	UL60950-1, TUV EN60950-1
EMC Standard.....	EN55022 Class B, EN61000-4-2, 3, 4, 5, 6, 8, 11 EN61000-3-2, 3, ENV50204
MTBF.....	106.3 khrs (MIL-HDBK-217F) @ 25 °C
Dimensions.....	235.2 x 101.5 x 38 mm
Weight.....	1.1 kg each

Models and Ratings

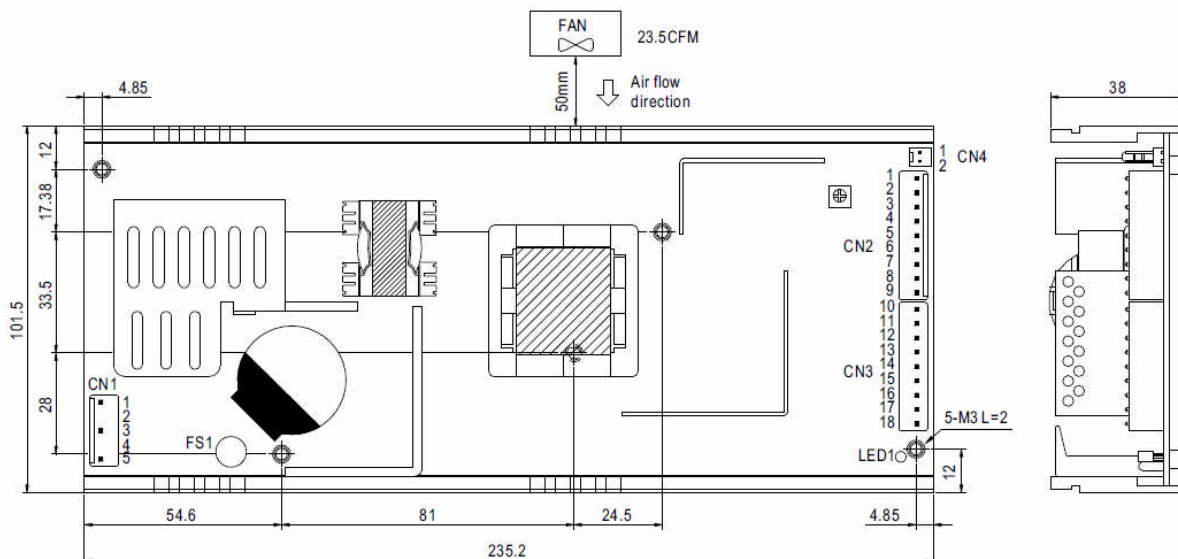
Model	Output Convection Cooled	Output Fan Cooled (23.5CFM)	Ripple/Noise	Efficiency
USP-350-3.3	3.3 V / 50 A	3.3 V / 70 A	80 mV	78%
USP-350-5	5 V / 50 A	5 V / 70 A	80 mV	84%
USP-350-12	12 V / 25 A	12 V / 29.2 A	100 mV	88%
USP-350-15	15 V / 20 A	15 V / 23.4 A	100 mV	88%
USP-350-24	24 V / 12.5 A	24 V / 14.6 A	150 mV	88%
USP-350-48	48 V / 6.25 A	48 V / 7.3 A	150 mV	89%

Note: The unit requires 23.5CFM of forced air cooling for 350W rated output power. With free air convection cooling, the unit is rated at 300W

For mechanical details and pinout, see next page

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Mechanical Details



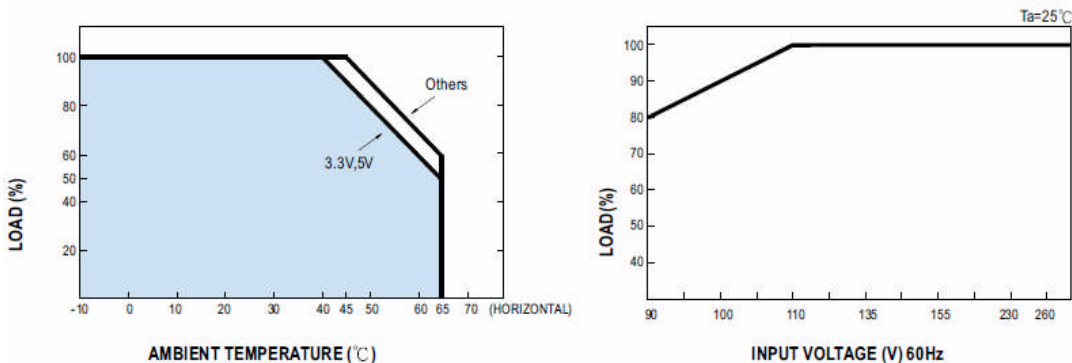
Pinout

AC Input Connector (CN1) JST B5P-VH or Equivalent			
Pin	Function	Mating Housing	Mating Terminal
1	F/G	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
2, 4	No Pin		
3	AC Neutral		
5	AC Live		

DC Output Connector (CN2, CN3) JST B9P-VH*2 or Equivalent			
Pin	Function	Mating Housing	Mating Terminal
1~9	-V Out	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
10~18	+V Out		

Remote Sense (CN4) Molex 5045-02 or Equivalent			
Pin	Function	Mating Housing	Mating Terminal
1	Remote Sense +	Molex 5051 or equivalent	Molex 4809 or equivalent
2	Remote Sense -		

Derating Curves



Specifications can change without notice, E&OE. ALL PSU Terms & Conditions apply.

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