



PDS Design Solutions Ltd
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SA60 power supply

Features:

- Single output
- High efficiency
- Industry standard size 4" x 2"
- Open frame or cased option
- Low cost
- Low touch currents
- Low standby power
- Meets requirements of EN61000-3-2 PFC Class A
- Meets requirements of EN55022 'B' for conducted noise



Specification:

INPUT	
Input Voltage	100 – 230 Vac +/-10%
Frequency Range	50 / 60Hz
Temperature Range	0 – 50°C ambient (Convection cooled, uncased)
Input Fuse	T2H 250V TR5
Input Current	1.25Arms (90Vacin, 60W load)
Hold-up Time	8ms (110Vacin, 60W load) 70ms (230Vacin, 60W load)
Power Factor	0.45 (230Vacin, Full load)
Standby Power	0.5W (230Vacin)
Start-up	Less than 3 seconds, 100Vacin
OUTPUT	
Output Voltage	5V/12V/13.8V/24V/27.8V/32V/48V (+/-4% adjustment on pcb)
Output Current	8A/5A/4.35A/2.5A/2.16A/1.87A/1.25A (60Wmax)
Power limit	115% +/-10% (100Vacin)
Efficiency	Up to 89% (230Vacin, Full load, 48V unit)
OVP	105-125% (latching and non dissipative) recycle input to restart
Short Circuit protection	Hiccup mode
Signals	O/p LED
Current limit	Primary side power limit
Thermal protection	Primary side thermal protection (non-latching)
Load regulation	+/-0.5%
Line regulation	+/-0.5%
Noise & ripple	0.5% (230Vacin, Full load, BW = DC – 10MHz)
ENVIRONMENT	
Temperature	0°C to +70°C (Derate 2.5% / °C above 50°C)
Cooling	Convection only
Humidity	10-95% non-condensing
Storage	-25°C to +85°C
MTBF	>200,000 hrs 25°C (MIL217F parts count method)



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SAFETY & REGULATORY SPECIFICATIONS

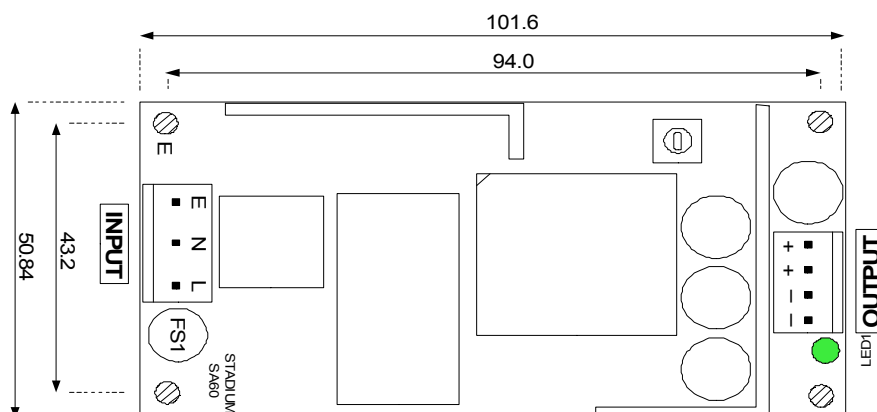
PSU Class	Class I & II :- Component part
Safety	Certified to EN60950, CE marked against LVD Approved to UL60950 (E207000), CSA C22.2 No.60950 Designed to meet EN60601-1 Designed to meet EN61010-1
Flash test	I/p to O/p, 4300V DC Cased units, I/p to O/p & E, 2200V DC
Earth leakage current	None
Output touch current	<75uA rms (230Vacin 50Hz)
EMC – Conducted	Designed to meet requirements of EN55022 “Class B”
EMC – Radiated	Designed to meet requirements of EN55022 “Class A”
EMC - Power Factor	Designed to meet requirements of EN61000-3-2 “Class A”
EMC – Fast Transients	Designed to meet requirements of EN61000-4-4
EMC – Surge	Designed to meet requirements of EN61000-4-5
EMC – Voltage Dips & Fluctuations	Designed to meet requirements of EN61000-4-11

MECHANICAL

Dimensions	101.6mm x 50.84mm x 29.0mm (H)
Fixings	4x 3.2mm holes - See below
Input Connector	5W MOLEX 5273 series or equivalent (Pins 2 & 4 removed)
Output Connector	4W MOLEX 5273 series or equivalent
Pin-out	See below
Weight	140grams

Technical specification may be subject to change – contact sales office before ordering.

Mounting and Connection Diagram



(All dimensions in mm)