

# SA100 power supply

## Features:

- Single output
- High efficiency
- Industry standard size 5" x 3"
- Open frame or cased option
- Low cost
- Meets requirements of EN61000-3-2 PFC Class D
- Meets requirements of EN55022 'B' for conducted & radiated 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 5x20mm
Input Current	1.5Arms (90Vacin, 100W load)
Hold-up Time	40mS (110Vacin, 100W load) 40mS (230Vacin, 100W load)
Power Factor	0.95 (230Vacin, Full load)
No load power	Up to 2.4W (230Vacin)
Start-up	Less than 2 seconds, 100Vacin

### OUTPUT

Output Voltage	3V/3.5V/12V/15V/24V/32V/48V (+/-3% adjustment on pcb)
Output Current	15A/15A/8.33A/6.66A/4.16A/3.12A/2.08A (100Wmax)
Power limit	115% +/-10% (100Vacin)
Efficiency	Up to 84% (230Vacin, Full load, 48V unit)
OVP	105-125% (latching and non dissipative) recycle input to restart
Short Circuit protection	Hiccup mode
Signals	Remote sense connector
Current limit	Primary side power limit
Thermal protection	Primary side thermal protection (non-latching)
Load regulation	+/-0.25%
Line regulation	+/-0.25%
Noise & ripple	0.5% (230Vacin, Full load, DC – 10MHz)

### ENVIRONMENT

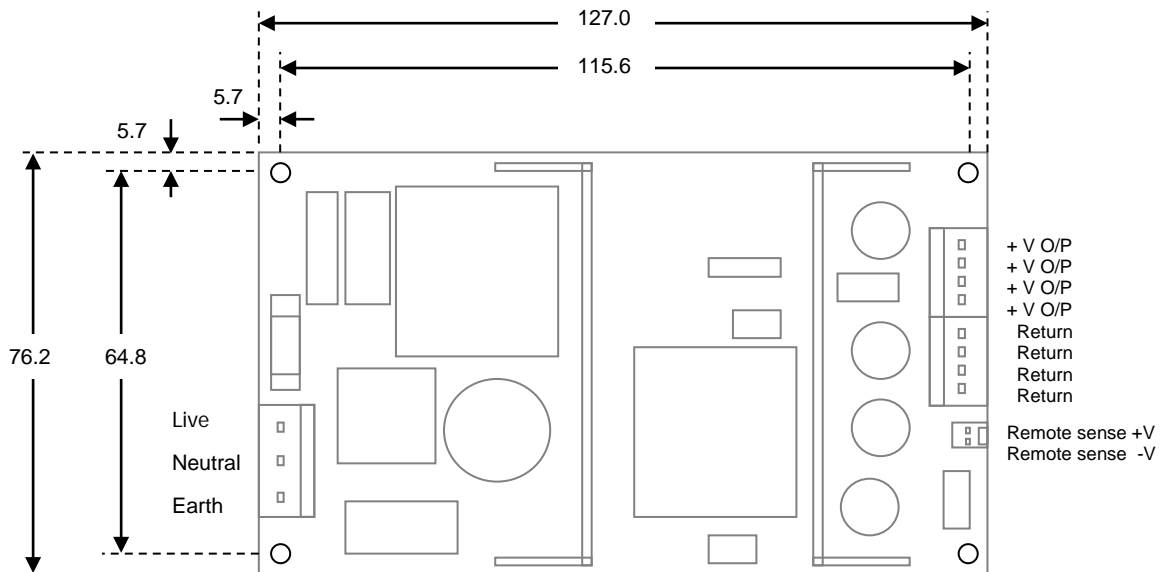
Temperature	0°C to +70°C (Derate 2.5% / °C above 50°C)
Cooling	Convection only
Humidity	10-95% non-condensing
Storage	-25°C to +85°C
MTBF	>100,000 hrs 25°C (MIL217F parts count method)

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SAFETY & REGULATORY SPECIFICATIONS	
PSU Class	Class I:- Component part
Safety	Certified to EN60950, CE marked against LVD Approved to UL60950 (E207000) and CSA C22.2 No.60950 only models; 5v/12v/24v/48v (others models pending)
Flash test	I/p to O/p, 4300V DC Cased units, I/p to O/p & E, 2200V DC
Earth leakage current	<250uA rms (230Vacin 50Hz)
Output touch current	<160uA rms (230Vacin 50Hz)
EMC – Conducted	Designed to meet requirements of EN55022 “Class B”
EMC – Radiated	Designed to meet requirements of EN55022 “Class B”
EMC – Power Factor	Designed to meet requirements of EN61000-3-2 “Class D”
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	127.0mm x 76.2mm x 38.0mm (H)
Fixings	4x 3.8mm holes - See below
Input Connector	5W MOLEX 5273 series or equivalent (Pins 2 & 4 removed)
Output Connector	8W MOLEX 5273 series or equivalent
Pin-out	See below
Weight	270grams

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

## Mounting and Connection Diagram



(All dimensions in mm)

