

Medline 100 Series

100 WATTS SINGLE OUTPUT AC/DC MEDICAL

Features

- High power density
- 12.5W per sq inch
- Reliable design
- Small footprint 51 x 102 x 32mm
- Safety standard IEC60601-1
- Overtemperature protection
- Overcurrent protection
- Class II, Double insulated



Specifications

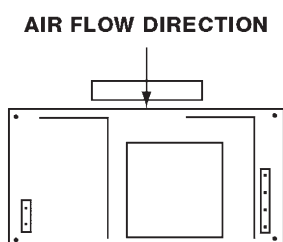
INPUT

Nominal input range	100-240VAC
Voltage range	90-264VAC, 85V with 70% output power.
Frequency	47-63Hz.
Inrush current	Max 50A peak, cold start.
Input Current	Max 1.4A.
Input connector	Type AMP, MTA 156, 3-pole, part no 0-0640388-3.
Leakage current	<100µA
Inrush Current	20A @ 115V, 40A @ 230V

OUTPUT

Power	Up to 100W, continuous at 100-240VAC input, see table
Output Voltage	See table. Factory preset non adjustable
Ripple & Noise	Typ. 1% p-p max (20MHz BW). 5% at <100VAC input.
Efficiency	87-90% @ 230VAC full load
Hold up time	16ms min at 230VAC
Start up time	<2s max
Line regulation	1% max full load. 5% at <100VAC input
Load regulation	2% max @ 230VAC, 10-90% load change at output terminal.
Overcurrent Protection	Approx 150%, auto recovery
Current limiting characteristics	Constant current
Overtemperature protection	Yes, auto recovery
Overvoltage protection	Yes
Transient response	4ms max
Output connector	Type AMP, MTA 156, 4-pole, part no 0-0640388-4.

Technical Illustration



ENVIRONMENTAL

Operating Temperature	0°C to +50°C, 70°C with derating
Storage temperature	-40°C to +75°C
Humidity	5% to 95% non-condensing
Derating	Derate from 100% at 50°C linearly to 50% at +70°C. Derate to 80% output power at convection cooling
Cooling	Convection or fan cooling. 6CFM (10m3/h) required for 100W continuous output

GENERAL

Switching frequency	60-100kHz.
MTBF	270,000 hours at 25°C ambient temperature
Lifetime prediction	Min 80,000 hours at 25°C, 230VAC at 70% load

STANDARDS AND APPROVALS

Safety standards	IEC60601-1 including deviations for Europe, US & Canada by Intertek Semko
C-Tick	AS/NZS CISPR11 Group 1, Class A
RFI/EMI standards	EN60601-1-2
Safety markings	S, ETL & CE
Isolation class	Class II. Double isolation

MECHANICAL

Dimensions	51 x 102 x 32 mm
Weight	Max 360g

Selection Table

MODEL NUMBER	OUTPUT VOLTAGE	CONTINUOUS OUTPUT POWER*	CONTINUOUS OUTPUT POWER*
PBSE 5125	12Vdc	8.3A	100W
PBSE 5131	13.8Vdc	7.2A	100W
PBSE 5126	15Vdc	6.7A	100W
PBSE 5127	18Vdc	5.5A	100W
PBSE 5128	24Vdc	4.2A	100W
PBSE 5132	27.5Vdc	3.6A	100W
PBSE 5129	48Vdc	2.1A	100W

(*) At 6 CFM forced air.