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



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	<100μΑ	
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

AIR FLOW DIRECTION

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 8 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
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(*) At 6 CFM forced air.

