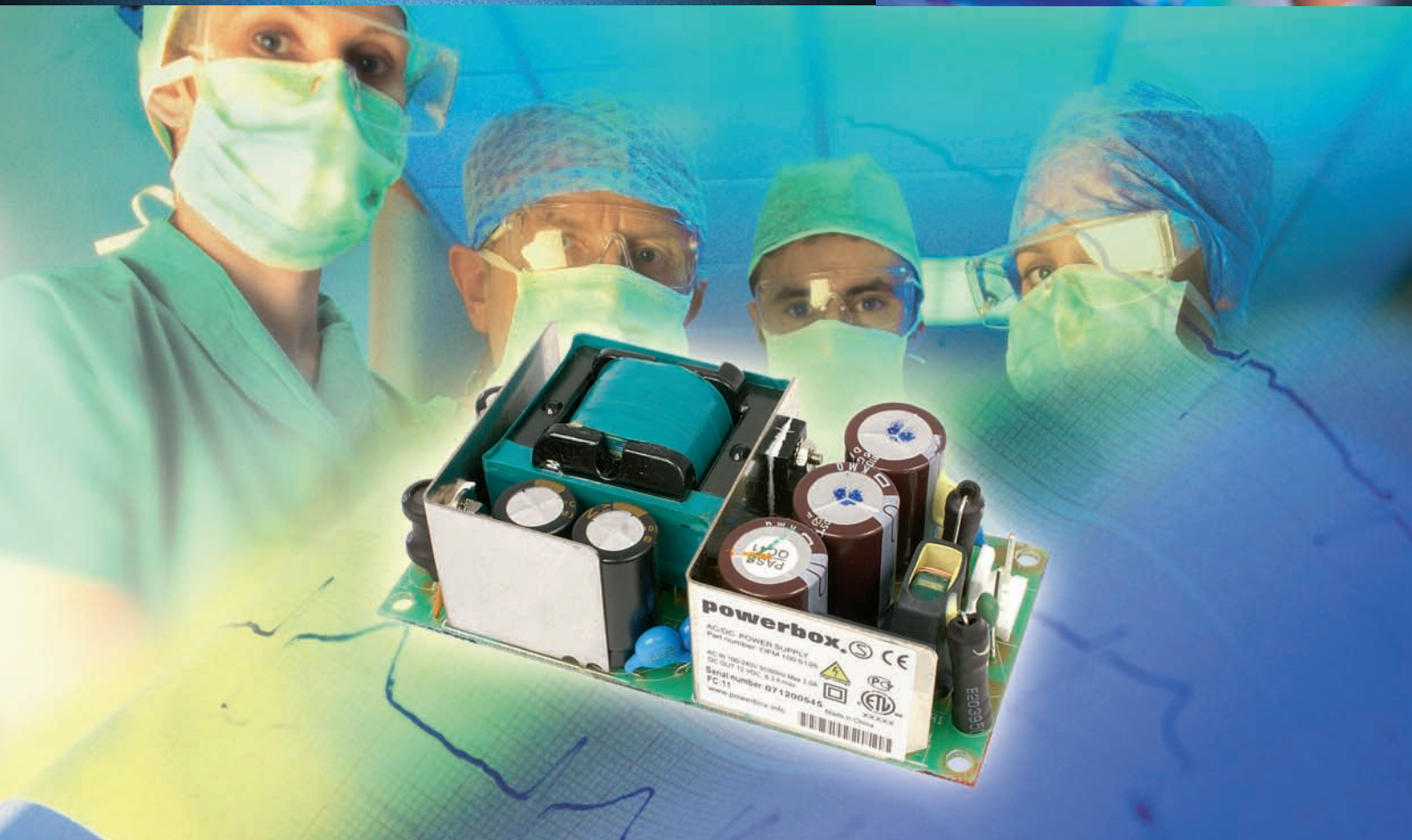


OFM100 Series

100 Watt
AC/DC Open Frame

Un-matched Power Density in 2x4 inch



INNOVATED FOR YOU BY A LEADER IN MEDICAL POWER SUPPLIES

powerbox
POWERING PROGRESS

Medline OFM 100

100 WATTS AC/DC SINGLE OUTPUT MEDICAL OPEN FRAME POWER

Key Features

- Ultra high power density 12.5W/sq inch
- Reliable front edge fly-back design with very low component count
- Standard 2x4 inch footprint
- Very low leakage current allow parallel connection for higher output power requirements
- Class II double isolation and UL/IEC60601-1 medical approval



Product Description

Medline OFM 100 is a high performance and high density single output AC/DC power supply series in open frame format. It provides up to 100 Watts continuous in standardized PCB size 51 x 102 mm and 32 mm in height.

Medline OFM 100 Series features the latest fly-back topology and it is ready for world wide AC inputs, 100 to 240 VAC.

Single output 12, 15, 18 or 24VDC.

Medline OFM 100

R SUPPLY

SPECIFICATIONS

INPUT

Nominal input range	100-240VAC.
Voltage range	90-264VAC, 85-99VAC with 70% output power.
Frequency	50/60Hz.
Inrush current	Max 50A peak, cold start.
Input current	2A.
Recommended input cable connector.	Housing: Molex 6442 series 3-pin housing part number 0026034030 (locking) or 002603 3031 (non-locking). Connector terminals: 0008520112 (reel) or 0008520113 (bag), tin plating.
Leakage current	<100µA.
Isolation class	Class I, double isolation between input and output.
Zero load power consumption	Approx 0,3 Watts at 110 VAC input.

OUTPUT

Power	Up to 100W, continuous at 100-240VAC input, see table.
Voltage	See table. Factory preset non adjustable.
Tolerance	5%.
Ripple and noise	Typ. 1% p-p max (20MHz BW). 5% at ≤110VAC input.
Efficiency	87-90% @ 230VAC full load.
Hold up time	35ms 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 125%, auto recovery.
Current limiting charact.	Constant current.
Overtemp. protection	Yes, auto recovery.
Overvoltage protection	Yes.
Transient response	4ms max.
Temperature coefficient	Typ. 0.04%/°C of U _o .
Recommended output connector	Housing: Molex 6442 series 4-pin housing part number 0026034041 (locking) or 0026033041 (non-locking). Connector terminals: 0008520112 (reel) or 0008520113 (bag), tin plating.

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 80W output power at convection cooling. 12-15VDC versions derate to 70W at convection cooling.
Cooling	Convection or fan cooling. 6,6CFM (11m ³ /h) required for 100W continuous output. See drawing.
RoHS	Unit complies with RoHS.

POWERBOX PART NO	OUTPUT VOLTAGE	CONTINUOUS OUTPUT CURRENT*)	CONTINUOUS OUTPUT POWER*)
OFM100 5125	12VDC	8.3A	100W
OFM100 5126	15VDC	6.7A	100W
OFM100 5127	18VDC	5.5A	100W
OFM100 5128	24VDC	4.2A	100W

*) At 6,6 CFM forced air.

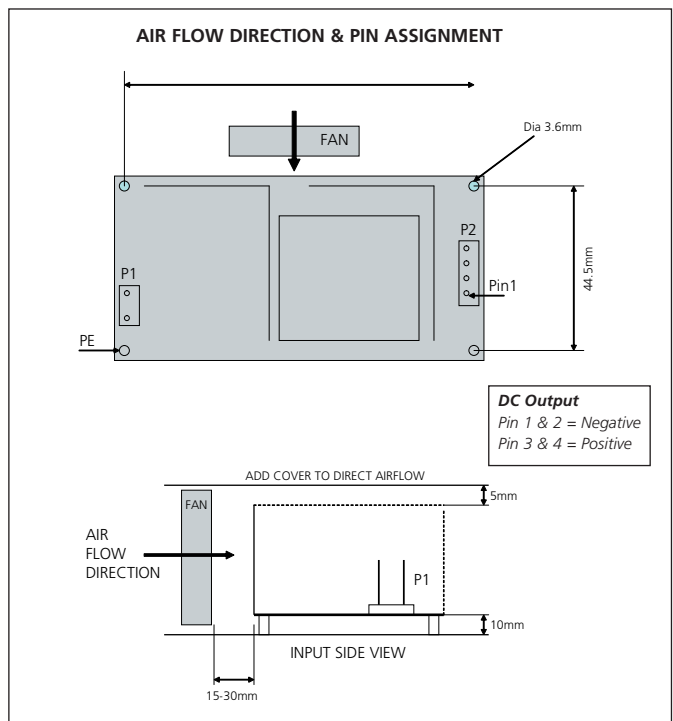
GENERAL

Switching frequency	40-80kHz.
Dimensions	51 x 102 x 32 mm (2x4 inch).
Weight	Max 200g.
MTBF	270,000 hours at 25°C ambient temperature, 50 years power on.
Lifetime prediction	Min 80,000 hours at 25°C, 230VAC at 70% load.

STANDARDS

Safety standards	Approved according to IEC/UL60601-1 including deviations for Europe, US & Canada by Intertek Semko & UL. Fulfills IEC60950-1
Safety markings	S, ETL, UL & CE
EMC standards	IEC60601-1-2, IEC61204-3, EN55011 class B.
Harmonic current emissions	IEC61000-3-2.
Voltage fluctuations and flicker	IEC61000-3-3.
ESD susceptibility	IEC61000-4-2, ±6kV contact discharge, ±8kV air discharge.
Radiated susceptibility	IEC61000-4-3, 3V/m.
EFT/Burst	IEC61000-4-4, ±2kV on AC port, ±1kV on signal ports.
Surge	IEC61000-4-5, ±2kV common mode, ±1kV differential mode.
Conducted susceptibility	IEC61000-4-6, 3V/m.
Power frequency magnetic field	IEC61000-4-8, 3A/m.
Dips and interruptions	IEC61000-4-11, 30% 500ms, 60% 100ms, 95% 5sec. Performance criteria A A* B.

* at 100-160 VAC nominal input voltage performance criteria B



Specifications are subject to change without notice.