

Medline

OEM 100

Un-matched Power Density in 2x4 inch Open Frame

Powering Progress



Innovated for you by a Leader
in Medical Power Supplies

powerbox
YOUR DEPENDABLE POWER PARTNER!
Close to you!

Medline OFM 100

100 WATTS AC/DC SINGLE OUTPUT MEDICAL OPEN FRAME P

Key Features

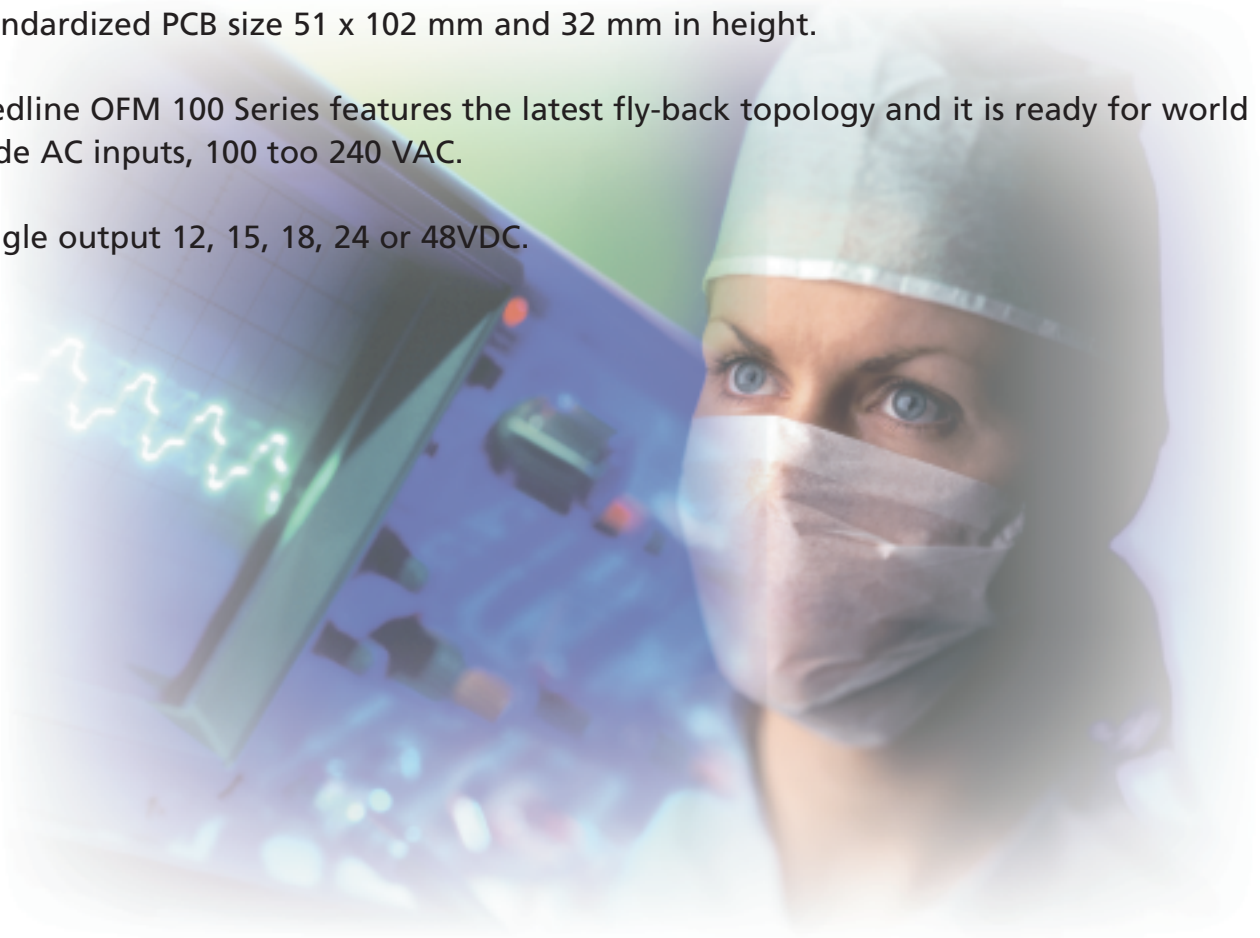
- Ultra high power density 12.5W/sq inch
- Reliable front edge fly-back design with very low component count
- Standard 2x4 inch footprint
- Very low leakage current allow parallel connection for higher output power requirements
- Class II double isolation and IEC60601-1 medical approval

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.

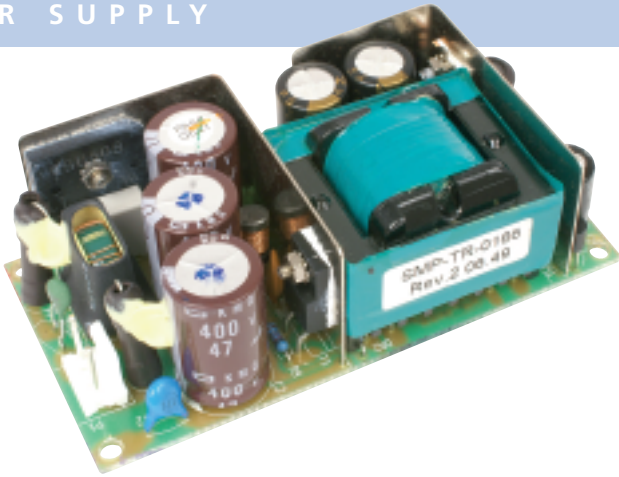
Single output 12, 15, 18, 24 or 48VDC.



Medline OFM 100

POWER SUPPLY

SPECIFICATIONS



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
OFM100 5129	48VDC	2.1A	100W

*) At 6,6 CFM forced air.

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.
Input connector	Type AMP, MTA 156, 3-pole, part no 0-0640388-3.
Leakage current	<100µA.
Isolation class	Class II, double isolation between input and output. Final product isolation class is depending on system design.
Zero load power consumption	Approx 0,5 Watts at 110 VAC input.

OUTPUT

Power	Up to 100W, continuous at 100-240VAC input, see table.
Voltage Tolerance	See table. Factory preset non adjustable. 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 Uo.
Output connector	Type AMP, MTA 156, 4-pole, part no 0-0640388-4.

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. 12-15VDC versions derate to 70% at convection cooling.
Cooling	Convection or fan cooling. 6,6CFM (11m³/h) required for 100W continuous output. See drawing.
RoHS	Unit complies with RoHS.

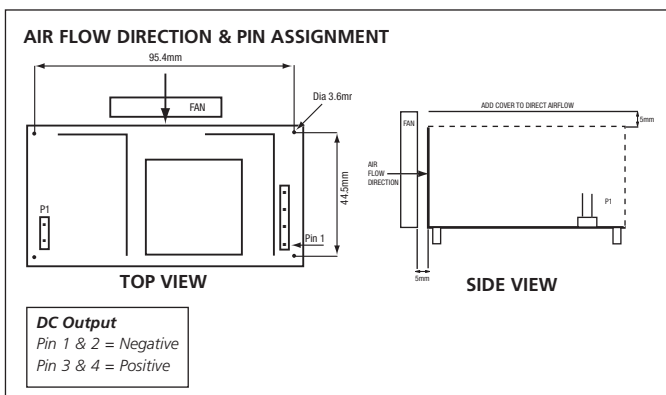
GENERAL

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	IEC60601-1 including deviations for Europe, US & Canada by Intertek Semko.
Safety markings	S, ETL & CE.
EMC standards	IEC60601-1-2, IEC61204-3.
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



WORLD WIDE LOCAL SUPPORT

		Telephone	Fax	E-mail
Powerbox Pty Ltd, Australia 4 Beaumont Road, Mounting Kuring-Gai, NSW 2080, Australia Unit 1, 15 Nicole Close North Bayswater VIC, 3153, Australia		+61 2 9457 2200 +61 3 9761 7797	+61 2 9457 2255 +61 3 9761 7789	sales@powerbox.com.au
Powerbox BV, BeNeLux P.O. Box 1814, NL-4801 BV Breda, The Netherlands		+31 076 5015856	+31 076 5015817	info.nl@powerbox.info
Powerbox Power Supply (Kunshan) CO., Ltd. Huanlou Road, Penglang Town, Kunshan City, Jiangsu Province, China 215333		+86 512 57720011	+86 512 57720119	info.cn@powerbox.info
Powerbox A/S, Denmark Kulsviervænget 5, DK-2800 Kgs. Lyngby, Denmark		+45 45 93 42 00	+45 45 93 42 42	info.dk@powerbox.info
Powerbox Oy, Finland Lemminkäisenkatu 20 FI-20520 Turku, Finland		+358 2 273 6100	+358 02 273 6120	info.fi@powerbox.info
Powerbox S.A.R.L., France Immeuble "Le Newton" C. 7, Mail B. Thimonnier, FR-77185 Lognes, France		+33 01 64 11 43 43	+33 01 64 11 43 44	info.fr@powerbox.info
Powerbox Israel Ltd, Israel 20 Ha'taas St., Bell House, 44425 Kfar-Saba, Israel		+972 9 767 67 67	+972 9 765 00 81	info.il@powerbox.info
Powerbox GmbH, Germany Postfach 12 01 65, DE-59485 Soest, Germany		+49 07229 1866-30	+49 07229 1866-3	info.de@powerbox.info
Powerbox Italia S.r.L., Italy Via Forlanini, 52 IT-20043 Arcore (MI), Italy		+39 039 60 13 849	+39 039 60 15 462	info.it@powerbox.info
Powerbox Pacific Ltd, N.Z. P.O. Box 479, Albany, New Zealand		+64 9 415 83 20	+64 9 415 97 80	sales@powerbox.co.nz
Powerbox A/S, Norway P.O. Box 32, NO-1306 Bærum Postterminal, Norway		+47 67 16 44 00	+47 67 16 44 01	info.no@powerbox.info
Powerbox Ltd, Singapore Blk 5 Ang Mo Kio Ind Park 2A, #06-04 AMK Tech II Singapore 567760		+65 6483 9280	+65 6556 4452	info.sg@powerbox.info
Powerbox Spain S.A., Spain Gran Via nº 8-10, 3º 3ª, ES-08902 Hospitalet del Llobregat, Barcelona Albacete 2, 2º floor, ES-28027 Madrid, Spain		+34 93 296 90 80 +34 91 326 04 36	+34 93 296 58 50 +34 91 326 04 96	info.es@powerbox.info
Powerbox AB, Sweden Box 148, SE-646 22 Gnesta, Sweden		+46 158 703 00	+46 158 703 20	info.se@powerbox.info
Powerbox Ltd, UK Knights Court, Magellan Close, Walworth Industrial Estate, Andover, Hampshire SP10 5NT, UK		+44 01264 384 460	+44 01264 334 337	info.uk@powerbox.info
Powerbox Inc, USA 100 Technology Drive, Suite 325-C, Broomfield, CO 80020, U.S.A.		+1 303 439 7220	+1 303 439 7211	info.us@powerbox.info