

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

Approved according to IEC/UL 60601-1

Superior EMC performance

Intelligent over temperature protection

Input

IIIput			
Nominal input range	100-240VAC		
Voltage range	90-264VAC		
Frequency	47-63Hz		
Inrush current	Max 50A peak, cold start		
Input current	2A		
Input cable connector	Recommended: Housing: Molex 6442 series		
	3-pin housing part No 0026034030 (locking)		
	or 002603 3031 (non-locking).		
	Connector terminals: 0008520112 (reel) or		
	0008520113 (bag), tin plating		
Leakage current	<75μΑ		
Isolation class	s Class I, double isolation between input and		
	output		
Isolation	4000 VAC, 1s input to output		
	4000 VAC, input to ground		
	1500 VAC, output to ground		
	10Mohm isolation primary-secondary		
Zero load power consumption			
	Approx 0,3 Watts at 110 VAC input		

Output

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		

POWERBOX Medline 100
OFM100 Series
100W
Single Output
AC/DC Medical Switch Mode Power Supply



Constant current	
Yes, auto recovery and output power limiting	
Yes	
4ms max	
Typical 0.04%/°C of Uo	
Recommended: Housing: Molex 6442 series	
4-pin housing part No 0026034041 (locking)	
or 0026033041 (non-locking).	
Connector terminals: 0008520112 (reel) or	
0008520113 (bag), tin plating.	

Environmental

Operating temperature	0°C to 50°C (according to test method in	
	IEC60601-1 and 0°C to 40°C acc to	
	IEC60950-1)	
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.	
Environmental compliance	e RoHS, REACH and WEFF	

General

Switching frequency	40-80kHz	
Acoustic noise	Less or equal to 30dB(A) at a distance of 0.3m and in frequency range 1Hz to 20kHz	
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 hrs at 25°C, 230VAC at 70% load	
Warranty	2 years	
Installation guide	Available at Powerbox website	

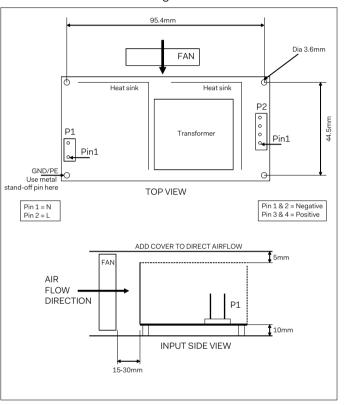
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Standards Safety standards	Approved according to IEC60601-1 Edition 3.1	
Salety standards	including deviations for Europe, US & Canada	
	by Intertek Semko. Fulfills IEC60950-1.	
	UL pending.	
Safety markings	S, ETL, UL & CE	
EMC standards	IEC60601-1-2, 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 susceptibilit	y 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	

Powerbox	Output	Continuous	Continuous
Part No	Voltage	Output Current*)	Output Power*)
OFM1005125	12VDC	8.3A	100W
OFM1005126	15VDC	6.7A	100W
OFM1005127	18VDC	5.5A	100W
OFM1005128	24VDC	4.2A	100W

^{*)} At 6,6 CFM forced air.

Air Flow Direction + Pin Assignment



Specifications are subject to change without notice.

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