Features

Reliable front edge fly-back design with very low component count Up to 325W in peak power Parallel operation Standard 3x5 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

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Nominal input voltage	100-240VAC.		
Voltage range	90-264 VAC, derate output power with		
	1%/1VAC from 100 VAC		
Frequency	47-63Hz		
Inrush current	70A		
Input current	1-3A		
Power factor correction	PF>0,90 for 25 to 100 % of load current		
Input connector	AMP/TE 640388-3 (2 pin, middle pin cut)		
	Pins = Tin plated copper		
Mating input	Recommended AMP/TE 3-640426-3		
Leakage current	<100μΑ		
Isolation class	Class I. Designed as a Class II fulfilling EMC		
	requirements with output grounded		
Isolation	4000VAC, 1s input to output		
	4000VAC, input to ground		
	100VDC, output to ground		
	10Mohm isolation prim-sec		
Power consumption	Zero load approx 0,3 Watts at 110 VAC input		

Output	
Power	Up to 325 W. See table on page 2 for details
Voltage	See table. Factory preset non adjustable
Tolerance	±5% including line, load, step load, temp
	coefficient. See table.
Ripple and noise	Typ <1% 120-264VAC (5228)
20Mhz BW	Typ <2% 120-264VAC (5225 & 5226)
	Typ <6% 90-119VAC, 100Hz ripple component.
	Increased ripple at current limit or temperature
	protection mode, 100Hz ripple component.
Efficiency	Up to 92%
Hold up time	Typical 20ms at 240VAC and 10ms at 100VAC
	for OFM225 5228 and 10ms at 240VAC and
	5ms at 100VAC input for OFM225 5225
Start up time	<2s
Line regulation	±1%
Load regulation	±1% at 10-90% load change at output terminal
Overcurrent protection	Trip point max 130%, auto recovery
Current limiting charact.	Constant current
Overtemp. protection	Yes, auto recovery and output power limiting
Overvoltage protection	Yes, trip point approx. at 125%
Max capacitive load	100.000μF

POWERBOX Medline 225 OFM225 Series 225W Single Output AC/DC Medical Switch Mode Power Supply



Transient response	2.5% deviation for a 25% load change at			
Transient response	1A/1ms. Output returns within			
	regulation in max 4ms and typical 1ms			
Temperature coefficient	<u> </u>			
Input connector	AMP/TE 640388-3 (2 pin, middle pin cut)			
input connector	Pins = Tin plated copper.			
Output connector	AMP/TE 640388-8 (8 pin) 1-4 positive/5-8			
Output connector	negative, Pins = Tin plated copper.			
Mating output	Recommended AMP/TE 3-640426-8.			
iviating output	Recommended AMP/TE 3-040420-6.			
Environmental				
Operating temperature	0°C to 50°C at 100% load			
	50°C to 70°C at 50% load			
	-40°C start up			
Storage temperature	-40°C to +75°C			
Humidity	5% to 95% non-condensing			
Derating	Automatically derating linearly to 50% power at			
	70°C controlled by internal over temperature			
	protection.			
Cooling	Convection or forced air cooling with external fan			
	6.6CFM (11m ³ /h) required for peak power output.			
Environmental efficiency	Fulfilling Green Mode requirements from			
	IEC60950-1, CEC Level V, EISA and ErP.			
	Less than 0.3 W in zero load consumption.			
Home care environment	IEC60601-1-11			
Environmental compliance	eRoHS, REACH and WEEE			
Altitude	Rated for use at 70kPa corresponding to			
	3000m with forced air 6.6CFM			
General				
Switching frequency	80-120 kHz			
Parallel operation	Yes without additional components. Automatic			
	load sharing through the integrated temperature			
	protection (approx, 80% load sharing) N+1			

AC/DC Medical Switch Mode Power Supply

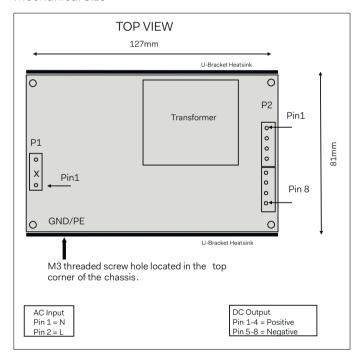
Model	Output	Continous Output	Continous Output	With Forced	With Forced	Peak Output	Peak Output	Eff.
Number	Voltage	Current ¹	Power Convection ¹	Air 6.6CFM ²	Air 12CFM ²	Current ³	Power ³	
Input Voltage 10	00VAC4							
OFM2255225	12V	6.7 A	80W	160W	160W	21.66A	260W	
OFM2255226	15V	8 A	120W	165W	165W	19A	285W	
OFM2255228	24V	8.75A	210W	225W	225W	13.54A	325W	
Input Voltage 23	BOVAC							
OFM2255225	12V	12.9 A	155W	180W	200W	21.66A	260W	90.5%
OFM2255226	15V	11A	165W	200W	225W	19A	285W	91%
OFM2255228	24V	9.375A	225W	250W	325W	13.54A	325W	92%

Notes:

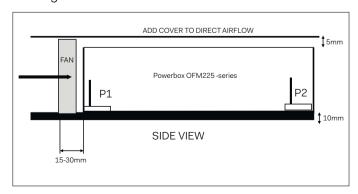
- 1. Convection cooling at operating temperature +50°C.
- 2. Maximum power rating at +50°C. Airflow must be directed to pass through the OFM225.
- 3. Peak power max duration 10 sec every 100 sec (10% duty cycle), average power to be within limitations by cooling condition.
- 4. Derate output power lineary to 90% between 90-100VAC with 1%/1VAC.
- 5. App suffix -02 after part number, example OFM225 5228-02, for fuse in Neutral replaced by immer.

Component count	Approx 115
Warranty 2	2 years
Installation guide	Available at PRBX.com
Standards	
Safety standards	Approved according to IEC60601-1
	including deviations for Europe,
	US & Canada by Intertek SEMKO.
	UL ANSI/AAMI ES60601-1,
	CAN/CSA C22.2 No. 60601-1.
	Designed to meet IEC60950-1.
Safety markings	ETL, UL & CE
EMC standards	IEC60601-1-2, IEC61204-3, EN55011
	Class B
Harmonic current emissio	ns IEC61000-3-2
Voltage fluctuations and fl	icker IEC61000-3-3
ESD susceptibility	IEC61000-4-2, ±15kV air and ±8kV
	contact
Radiated susceptibility	IEC61000-4-3, 10V/m. Proximity test,
	9V/m and 28V/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, 10V/m
Power frequency magnetic	c field IEC61000-4-8, 30A/m
Dips and interruptions	IEC61000-4-11, 100% drop, 0.5 periods
	100% dip, 1 period
	30% dip, 25/30 periods
	Interruptions: 100% drop, 5 seconds

Mechanical size

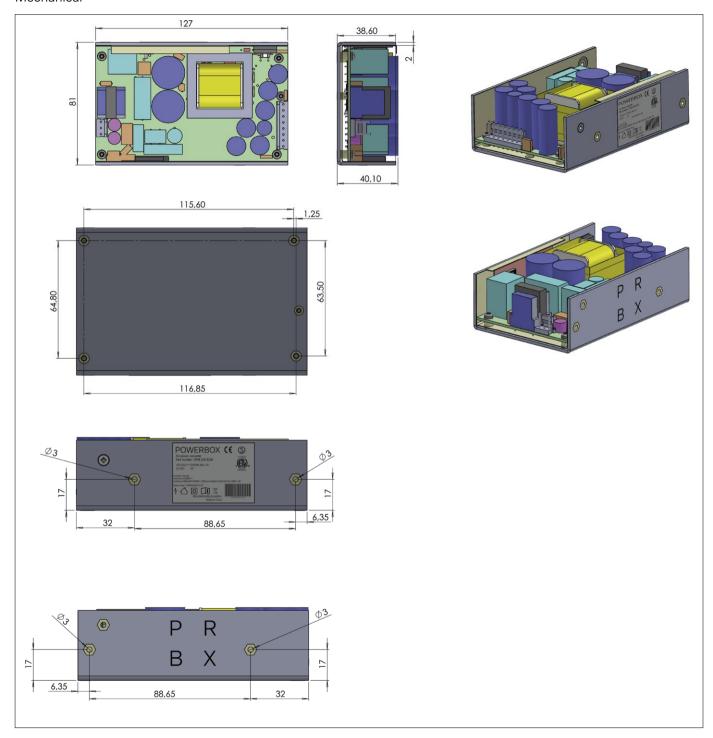


Cooling



POWERBOX Medline 225
OFM225 Series
225W
Single Output
AC/DC Medical Switch Mode Power Supply

Mechanical



Specifications are subject to change without notice.

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