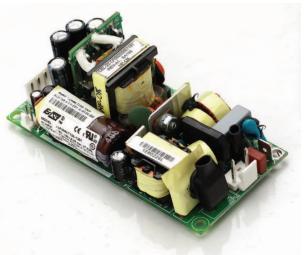
150 Watt Medical



Features

- 4.0 x 2.0 x 1.324 inches form factor
- 150 W with air forced cooling
- Class 1 & 2 products
- 12 V @ 0.5 A fan voltage auxiliary output
- High Efficiency > 86%
- Low conducted and radiated noise
- Light weight
- Medical approvals

Electrical Specifications					
nput Voltage	90-264 VAC/120-390 VDC, Unive	rsal			
Input Frequency	47-63 Hz				
Input Current	120 VAC: 1.7 A max.	230 VAC: 0.85 A max.			
Inrush Current	120 VAC: 35 A max.	230VAC: 65 A max.			
Leakage Current	120 VAC: < 140 μA	230 VAC: < 250 μA			
Efficiency	120 VAC: 84% typical	230 VAC: 86% typical			
Hold-up Time	120 VAC: 6 ms	230 VAC: 10 ms			
Power Factor	120 VAC: 0.99	230 VAC: 0.95			
Output Power	150 W				
Peak Power	170 W for 0.2 s				
Line Regulation	+/-0.5%				
Load Regulation	+/-2.0%				
Transient Response	< 10%, 50% to 100% load change	< 10%, 50% to 100% load change, 50 Hz, 50% duty cycle, 0.1 A/µs,			
	recovery time < 5 ms				
Rise Time	< 100 ms				
Set Point Accuracy (Main Output)	+/-1%				
Output Adjustability	+/-3.0 %				
Over Current Protection	110% typical above rating				
Over Voltage Protection	110 to 150%				
Short Circuit Protection	Short term, auto recovery				
Switching Frequency	PFC converter: Variable, 35–250 kl	PFC converter: Variable, 35–250 kHz; 90 kHz typical			
	Resonant converter: Variable, 35-	250 kHz; 90 kHz typical			
Operating Temperature	-20 to +70°C, refer derating curve				
	-20 to 0°C, start-up is guaranteed				
Storage Temperature	-40 to +70°C				
Relative Humidity	95% Rh, non condensing				
Altitude	Operating: 10,000 ft.; Non-operating: 40,000 ft.				
MTBF	> 200 kh, Bellcore TR332				
Isolation Voltage	Min. 5900 VDC between input to o	output			
Cooling	Convection: 80 W; 300 LFM: 100 W (5 V model)				
-	Convection: 100 W; 300 LFM: 150	W (Other model)			

Model Number	Description	Voltage	Max. Load ¹ (Convection)	Max. Load¹ (300 LFM)	Min. Load	Ripple ²
LFMWLT150-1000 LFMWLT150-1000-2	Class 1 with Screw Terminal Class 2 with Screw Terminal	5 V	16.0 A	20.0 A	0.0 A	1%
LFMWLT150-1300 LFMWLT150-1300-2	Class 1 with JST Connector Class 2 with JST Connector	3 V	10.0 A	16.0 A	0.0 A	1 70
LFMWLT150-1001 LFMWLT150-1001-2 LFMWLT150-1301 LFMWLT150-1301-2	Class 1 with Screw Terminal Class 2 with Screw Terminal Class 1 with JST Connector Class 2 with JST Connector	12 V	8.33 A	12.5 A	0.0 A	1%
LFMWLT150-1002 LFMWLT150-1002-2 LFMWLT150-1302 LFMWLT150-1302-2	Class 1 with Screw Terminal Class 2 with Screw Terminal Class 1 with JST Connector Class 2 with JST Connector	15 V	6.67 A	10.0 A	0.0 A	1%
LFMWLT150-1003 LFMWLT150-1003-2 LFMWLT150-1303 LFMWLT150-1303-2	Class 1 with Screw Terminal Class 2 with Screw Terminal Class 1 with JST Connector Class 2 with JST Connector	24 V	4.17 A	6.25 A	0.0 A	1%
LFMWLT150-1004 LFMWLT150-1004-2 LFMWLT150-1304 LFMWLT150-1304-2	Class 1 with Screw Terminal Class 2 with Screw Terminal Class 1 with JST Connector Class 2 with JST Connector	48 V	2.08 A	3.13 A	0.0 A	1%
LFWLT100-CK metal cover	kit accessory					ر

Notes

- 1. Combined output power from V1 and VFAN should not exceed the total output power rating.
- 2. Ripple is 2% up to 20% load and < 1% above 20% load. Ripple is peak to peak with 20 MHz bandwidth and 10 μ F (Tantalum capacitor) in parallel with a 0.1 μ F capacitor at rated line voltage and load ranges.
- 3. Fan output voltage tolerance is $\pm -20\%$.
- 4. Peak current for fan output is 1 A.
- 5. Class 1 products have an Earthing tab and class 2 products (-2 suffix) have no Earthing tab.
- 6. Specifications are for nominal input voltage, 25°C and max. load unless otherwise stated.
- 7. Derate output power linearly to 80% from 90 VAC to 80 VAC input.

	Connector	rs
J1	Pin 1	AC LINE
	Pin 2	AC NEUTRAL
Spade Connector		EARTH
(Class 1 product only)		
J2	Pin 1, 2	V1
	Pin 3, 4	RTN
J3	Pin 1	VFAN (12 V/0.5 A)
	Pin 2	RTN

Mechanical Specifications				
AC Input Connector (J1)	Molex: 26-60-4030 or equivalent			
	Mating: 09-50-3031; Pins: 08-50-0106			
EARTH	Molex: 19705-4301 or equivalent			
	Mating: 190030001			
DC Output Connector (J2)	Option 1: Tyco: 1776112-4 or equivalent			
	Mating: 13 AWG wire			
	Option 2: JST: B4P-VH-B (LF) (SN) or B4P-VH (LF) (SN) or equivalent			
	Mating: VHR-4M; Pins: SVH-41T-P1.1			
Fan Connector (J3)	Tyco: 640456-2 or equivalent			
	Mating: 640440-2			
Dimensions	4.0 x 2.0 x 1.324 inches			
	(101.6 x 50.8 x 33.63 mm)			
Weight	150 g			
	EMC			
CE Mark	Complies with LVD Directive			
Conducted Emissions	EN55022-B, CISPR22-B, FCC PART15 CLASS-B, EN50082-1			
Static Discharge	EN61000-4-2, Level-3			
RF Field Susceptibility	EN61000-4-3, Level-3			
Fast Transients/Bursts	EN61000-4-4, Level-3			
Radiated Emissions	EN55022-B, CISPR22-B, FCC PART15-B			
	To be controlled in end system			
Surge Susceptibility	EN61000-4-5, Level-3			
Harmonic Current	EN61000-3-2, Class D			
Safety				
Safety Standard(s)	EN60601-1, IEC60601-1 (ed.3), UL60601-1 (1st Edition),			
	CSA C22.2 No. 601.1			
Approval Agency	Nemko, UL, C-UL			
Safety File Number(s)	Nemko: P12215339			
	UL: E173812			

