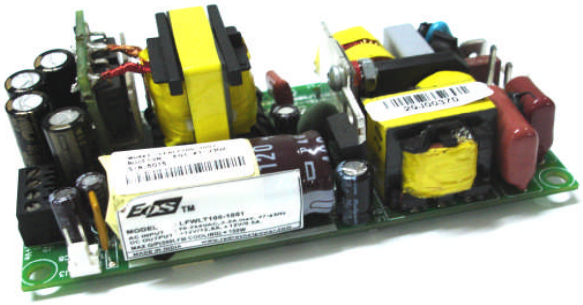
MWLT150 Series

New Product

Medical 150 Watt 2 x 4 Inch AC/DC Power Supplies

The M-Series of Medical Open Frame Power Supplies are ideal for Dental & Laboratory products & systems. Endoscopes, Instruments, Pumps, Drips, Medical Monitors, Defibrillators, Sleep Apnea devices and many other uses.



Features :

- **150 W with Forced Air Cooling.**
- **Small 2x4x1.324 inch form factor.**
- **High efficiency > 86%.**
- **12V Fan O/P**
- **Low conducted and radiated noise.**
- **Medical Approvals**
- **12V @ 0.5A Fan Voltage auxiliary output.**
- **Class 1 & 2 products**
- **Light weight**
- **Cover Kit accessory available.**

Model Number	Description	Voltage/ Current (Convection)	Voltage/ Current (Fan Cooled)
LFMWLT150-1000	Class 1 with Screw Terminal	5V @ 16A	5V @ 20A
LFMWLT150-1000-2	Class 2 with Screw Terminal		
LFMWLT150-1300	Class 1 with JST Connector	5V @ 16A	5V @ 16A
LFMWLT150-1300-2	Class 2 with JST Connector		
LFMWLT150-1001	Class 1 with Screw Terminal	12V @ 8.33A	12V @ 12.5A
LFMWLT150-1001-2	Class 2 with Screw Terminal		
LFMWLT150-1301	Class 1 with JST Connector		
LFMWLT150-1301-2	Class 2 with JST Connector		
LFMWLT150-1002	Class 1 with Screw Terminal	15V @ 6.67A	15V @ 10A
LFMWLT150-1002-2	Class 2 with Screw Terminal		
LFMWLT150-1302	Class 1 with JST Connector		
LFMWLT150-1302-2	Class 2 with JST Connector		
LFMWLT150-1003	Class 1 with Screw Terminal	24V @ 4.17A	24V @ 6.25A
LFMWLT150-1003-2	Class 2 with Screw Terminal		
LFMWLT150-1303	Class 1 with JST Connector		
LFMWLT150-1303-2	Class 2 with JST Connector		
LFMWLT150-1004	Class 1 with Screw Terminal	48V @ 2.08A	48V @ 3.13A
LFMWLT150-1004-2	Class 2 with Screw Terminal		
LFMWLT150-1304	Class 1 with JST Connector		
LFMWLT150-1304-2	Class 2 with JST Connector		
LFWLT100-CK	Metal cover-kit accessory		

INPUT SPECIFICATION		
AC Input DC Input	Universal	90 to 264VAC 120 to 390VDC (Reduce to half load at 120VDC Input)
Efficiency	All Models	≥86%
Input Frequency		47-63 Hz
Input Current	Full Load at Low line	2.0Arms , max
Inrush Current	230VAC, 115VAC	65A, 33A Max

OUTPUT SPECIFICATION		
Output Power		150W max
Leakage Current	Normal condition	250uA
Hold-Up Time	115V/230V	6ms./10ms
Peak Power		170 Watts for 0.2 Sec's
Line Regulation	Low line to high line	± 0.5%
Load Regulation	Min to Max load	± 2%
Transient Response	50% to full load Voltage Deviation Recovery Time	10%, max <5 ms
OVP	Self Protecting	Hiccup
Overload Protection	Primary limited	> 110%
Short Circuit Protection	Auto recovery <6s	Short Term
Ripple and Noise	Up to 20% load Above 20% load	2% <1%
Output Rise Time	All outputs	<100ms

EMC AND SAFETY SPECIFICATIONS	
CE Mark	Complies with the LVD
EMC	EN5022-B,CISPR22-B, FCC Part 15 Class B, EN50082-1
Agency Approval	c-URUS, NEMKO, IEC
Harmonic Correction	EN61000-3-2 Class D
Safety Standard	EN60601-1-2
Isolation	5.9KVDC Input to Output 2.6KVDC Input to GND
Insulation Resistance	7mOhms Input to Output

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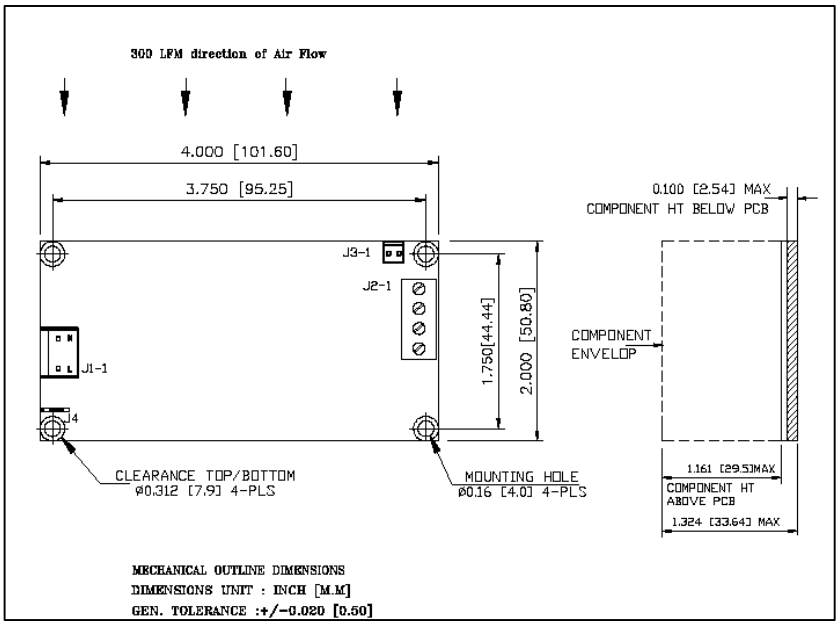
Medical 150 Watt 2 x 4 Inch AC/DC Power Supplies



MECHANICAL SPECIFICATION	
AC Input Connector J1	Molex 26-60-4030, 3 pin, 0.156” Mating Connector: Molex 09-50-3031 Pins: 08-50-0106 or Equivalent
Ground Connector	Molex 19705-4301 PCB Quick Dis-connect Mating: Molex AA-1140
DC Output connector J2	Option-1:Tyco terminal block 1776112-4, 4 pin, Wire: 13 AWG, side entry Option-2: JST: B4P-VH-B or B4P-VH (LF)(SN), 4 pin, 0.156” Mating Connector: VHR-4M Pins: SVH-41T-P1.1, 20-16 AWG
Size	4”x2”x1.324”
DC Output Connector J3	2 pin Header, AMP : 640456-2 or equivalent Mating Connector : Housing, AMP: 640440-2 or equivalent
Weight	5.3 Oz (150g)

ENVIRONMENTAL SPECIFICATION		
Operating Temperature	-20° to 0° C, start up guaranteed Reduce Linearly to 50% Load	-20 to 70° C 51 To 70° C
Storage Temperature		-40 to 85° C
Cooling 5V model All Other models	80W / 100W 100W / 150W	Convection / 300LFM Airflow
Relative humidity	Non condensing	95%, max
MTBF	Bell Core TR332	> 200,000 hrs
Altitude		Operating: 10,000ft Non-Operating: 40,000ft
Vibration	Operating & Non Operating	5-9Hz, 2G PK, 0.5 Oct./min, 2 cycles; 9-500Hz 0.5 Oct./min, 2 cycles.
Transients		EN61000-4-2, 4-3, 4-4, 4-5, 4-6, 4-11 Level 3

INPUT CONNECTOR J1	
Pin1	AC Line
Pin2	AC Neutral

INPUT SPADE CONNECTOR (CLASS-1 product only)	
GND	AC Ground

OUTPUT CONNECTOR J3	
Pin1	V fan
Pin2	RTN

OUTPUT CONNECTOR J2	
	Single Output
Pin1	V1
Pin2	V1
Pin3	RTN
Pin4	RTN

Notes
1. Combined output power from V1 & V Fan should not exceed the total output power rating
2. Fan output voltage tolerance is +/- 20%
3. Peak Fan output is 1A
4. Class 1 products have an earthing tab and Class 2 products (-2 suffix) have no earthing tab.

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