

MWLT200 Series



Features :

- > 200 W with Forced Air Cooling.
- > Small 3x5x1.5 inch form factor.
- > High efficiency > 88%.
- > 12V Fan O/P
- > 5V Standby O/P
- > O/P Voltage Adjustability
- > Remote Sense

The M-Series of Medical Open Frame Power Supplies are ideal for dental and laboratory products and systems. Endoscopes, Instruments, pumps, drips, medical monitors, defibrillators, sleep apnea devices and many other uses.

The MWLT200 is available as a Class 1 OR Class 2 product, has 88% efficiency, remote sense, over temperature protection and auxiliary voltage options as standard.



OUTPUT SPECIFICATION		
Output Power		200W max
Leakage Current	Typical Values	150 to 220uA
Hold-Up Time	115V/230V	10ms
Peak Power		250W
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	Latch Type
Overload Protection	Primary limited	150% of I-Out Max
Short Circuit Protection	Auto recovery <6s	Short Term
Ripple and Noise	Vstby & Main o/p	<2%
Output Rise Time	All outputs	<100ms
Minimum Load		0 Amps
Power Fail Signal	TTL active low	1ms warning
Power Good Signal	TTL active low Delay after V1 high	0.1s to 1s
Remote Sense	Line Compensation	200mV
Remote on/off	To turn-on PSU, Short Remote pin to GND	Yes
Over temperature Protection	Auto recovery	Yes

Model Number	O/P Voltage (Adjustment Range)	Current Convection	Current Fan Cooled
LFMWLT200-1000	5V (4.85 – 5.15)	125W (25A)	175W (35A)
LFMWLT200-1001	12V (11.64 – 12.36)	160W (13.33A)	200W (16.67A)
LFMWLT1200-1002	15V (14.55 – 15.45)	160W (10.67A)	200W (13.33A)
LFMWLT1200-1003	24V (23.28 – 24.72)	160W (6.67A)	200W (8.33A)
LFMWLT1200-1004	48V (46.56 – 49.44)	160W (3.33A)	200W (4.17A)
LFMWLT1200-1005	30V (29.1 – 30.9)	160W (5.33A)	200W (6.67A)
WLT200CK—Cover Kit Available			

INPUT SPECIFICATION		
AC Input DC Input	Universal	90 to 264VAC 120 to 390VDC (Reduce to half load at 120VDC Input)
Efficiency	5V Other Models	≥ 83% ≥ 86%
Input Frequency		47-63 Hz
Input Current	Full Load at Low line	3.0Arms , max
Inrush Current	High Line , cold start	150A, max

1) For Class 2 type, model no. LFMWLT200-XXXX-2.
2) For JST connector, model no. LFMWLT200-X3XX.

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Medical 200W Forced Air Cooled AC/DC Power Supplies

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	Convection (5V model) 300LFM Airflow (5V model)	160W (125W) 200W (175W)
Relative humidity	Non condensing	95%, max
MTBF	Bellcore TR332	> 250,000 hrs Minimum
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

EMC AND SAFETY SPECIFICATIONS	
CE Mark	Complies with the LVD
EMC	EN5022-B, CISPR22-B, FCC Part 15 Class B, EN50082-1
Agency Approval	UL, c-UL
Harmonic Correction	EN61000-3-2 Class D
Safety Standard	EN60601
Safety file number	UL: E173812 (Under approval)
Isolation	5.9KVDC Input to Output 2.6KVDC Input to GND
Insulation Resistance	7mOhms Input to Output

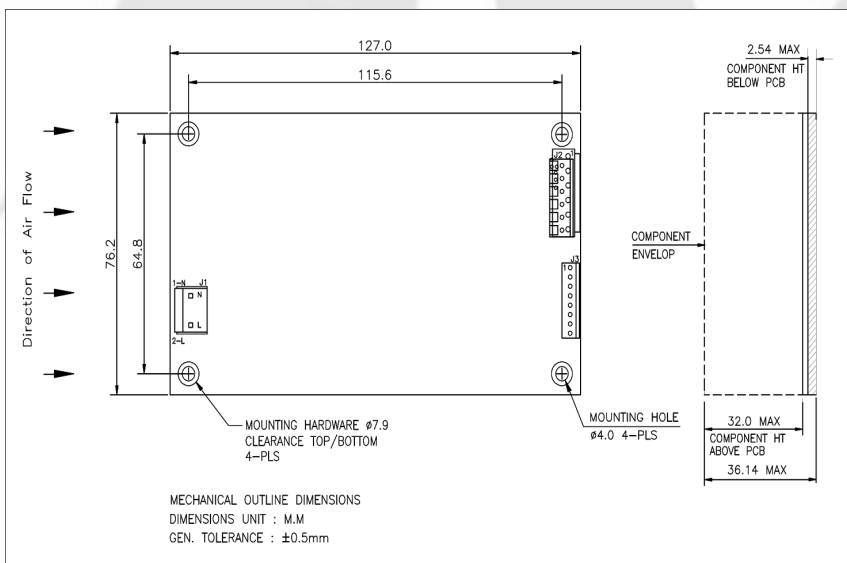
INPUT CONNECTOR J1	
Pin 1	AC Neutral
Pin2	AC Line

SIGNAL CONNECTOR J3	
Pin1	+ve Remote Sense
Pin2	-ve Remote Sense
Pin3	Vfan (12V/0.5A)
Pin4	Vstby (5V/1A, ± 5%)
Pin 5	RTN
Pin 6	Remote On/Off
Pin 7	Power Fail
Pin 8	Power Good

OUTPUT CONNECTOR J2	
Pin 1,2,3	RTN
Pin 4,5,6	V1

Earth J4
Quick Disconnect

MECHANICAL SPECIFICATION	
AC Input Connector J1	Molex 3 position, 0.156 center 26-60-4030 Mating Connector: Molex 09-50-3031 Pins: 08-50-0106
Ground Connector	Molex 19705-4301 PCB Quick Disconnect Mating: Molex 190030001
DC Output Connector J2 (Screw type terminal)	Tyco, 6 Pin terminal block, 282841-6, 5.08mm pitch Mating : Side entry wire 13AWG
DC Output Connector J2 (Header Connector)	CONN,HDR,6 PIN,0.156", PCB mount, JST p/n: B6P-VH-B-C (LF)(SN) Mating part no: Housing MPN : VHR-5M ,Housing ,4 pin, 0.156"Pitch Crimp/CONTACT PIN MPN : SXH-002T-P0.6
Signal Connector J3	Molex 8 Position, 0.1" Center, 22-23-2061 Vertical Mating ; Molex, 22-01-2067, Pins : 08-50-0113
Size	3 x 5 x 1.42 Inches
Weight	325gms



All Red Rocket, Inc. EOS power supplies have UL, CSA and Nemko safety compliance and medical versions meet UL60601-1 standards. All our products are RoHs compliant. Visit us at www.redrocketpower.com and contact us at: sales@redrocketpower.com or by calling +1 805-409-0909 today. © 2008, Red Rocket, Inc. EOS brand power supplies and patents are owned exclusively by Red Rocket, Inc. All Rights Reserved.

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