MWLT200 Series

Medical 200 Watt 3 x 5 Inch AC/DC Power Supplies

Voltage/

The MWLT200-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.



Voltage/



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

Model Number	Description		Current		Current			
			(Convectio	on)	(Fan Cooled)	OUTPUT SPECIFICATION		
MWLT200-1000		with Screw Terminal	5V @ 26A		5V @ 35A	001	FUI SPECIFICATI	
MWLT200-1000-2	Class 2	with Screw Terminal				Output Power		200W max
MWLT200-1300		with JST Connector			5V @ 26A	Leakage Current	Typical Values	150 to 220uA
MWLT200-1300-2		with JST Connector						40
MWLT200-1001	LT200-1001-2 Class 2 with Screw Terminal LT200-1301 Class 1 with JST Connector		12V @ 13.33A			Hold-Up Time	115V/230V	10ms
				12V @ 16.67A	Peak Power		250W	
MWLT200-1301				-		Line Regulation	Low line to high line	± 0.5%
MWLT200-1301-2	Class 2	with JST Connector					g.	
MWLT200-1002	Class 1	with Screw Terminal		15V @ 13.33A	Load Regulation	Min to Max load	± 2%	
MWLT200-1002-2			15V @ 10.66A		sΔ			
MWLT200-1302			15V @ 10.00A		15V @ 15.55A	Transient Response	50% to full load Voltage Deviation	10%, max
MWLT200-1302-2	Class 2	with JST Connector					Recovery Time	<5 ms
MWLT200-1003	Class 1	with Screw Terminal				OVP	110 –150% of Main o/p Remote ON/OFF reset	Latch Type
MWLT200-1003-2	Class 2 with Screw Terminal Class 1 with JST Connector		241/ @ 6 66					
MWLT200-1303			24V @ 6.66A	24V @ 8.33A	Overload Protection	Primary limited	150% of I-Out Max	
MWLT200-1303-2	Class 2	with JST Connector					,	
MWLT200-1004	Class 1 with Screw Terminal Class 2 with Screw Terminal Class 1 with JST Connector			48V @ 4.17A	Short Circuit Protection	Auto recovery <6s	Short Term	
MWLT200-1004-2			48V @ 3.33A		Ripple and Noise	Vstby & Main o/p	<2%	
MWLT200-1304					Output Rise Time	All outputs	<100ms	
MWLT200-1304-2	Class 2 with JST Connector				Minimum Load	Main o/p	0.04	
MWLT200-1005	Class 1 with Screw Terminal						Main o/p Standby o/p	0.0A 0.05A
MWLT200-1005-2 Class 2 with S		with Screw Terminal			Power Fail Signal		TTL signal goes low	1ms warning
MWLT200-1305 Class		with JST Connector	300 @ 5.33)V @ 5.33A	30V @ 6.67A			Ŭ
MWLT200-1305-2	Class 2 with JST Connector		-			Power Good Signal	TTL signal goes High after V1 is in	0.1s to 0.5s
WLT200-CK	Metal co	over-kit accessory					regulation	
						Remote Sense	Line Compensation	200mV
INPUT SPECIFICATION AC Input Universal 90 to 264				to 264VAC	Remote on/off	To turn-on PSU, Short Remote pin to GND	Yes	
DC Input				120 to 390VDC (Reduce to half load at 120VDC Input)		Over temperature Protection	Auto recovery	Yes
Efficiency		5V Other Models			≥ 83% ≥ 86%	Output Adjustability	@ 160W	± 3%
Input Frequency				Δ	17-63 Hz	Set point accuracy	Main o/p	Pre-set at ± 1%
Input Frequency				-	1 00112			

All 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 <u>www.eospower.com</u>. EOS brand power supplies and patents are owned exclusively by EOS Power. All Rights Reserved.

3.0Arms, max

65A, max

Full Load at Low line

230VAC , cold start

Input Current

Inrush Current

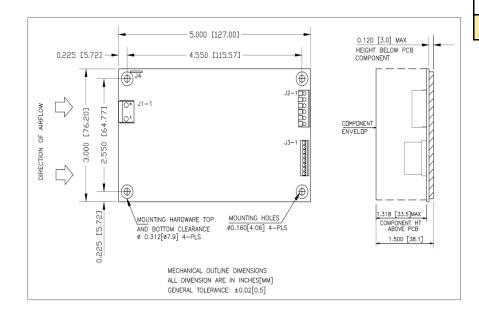
MWLT200 Series

Medical 200W Forced Air Cooled AC/DC Power Supplies

ENVIRONMENTAL SPECIFICATION			
Operating Temperature	-20 to 0° C start-up guaranteed For Convection cooled application, Derate output power to 40% of max. from For Forced air cooled application, Derate output power to 50% of max from	-20 to 70° C 41 to 70° C 51 to 70° C	
Storage Temperature		-40 to 85° C	
Cooling	Convection @ 40° C (5V model) 300LFM Airflow @ 50° C (5V model)	160W (130W) 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, 4-4, 4-5, Level 3	

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

INPUT CON	NECTOR J	1	SIGNAL CONNECTOR J3		
Pin 1	AC Neutral		Pin 1	+ve Remote Sense	
Pin2	AC Line		Pin 2	Vfan (12V/0.5A)	
OUTPUT CONNECTOR J2			Pin 3	-ve Remote Sense	
Pin 1,2,3			Pin 4	Remote On/Off	
	V1		Pin 5	Vstby (5V/1A, ± 5%)	
Pin 4,5,6 V1		Pin 6	RTN		
Earth J4			Pin 7	Power Fail	
Quick Disconnect			Pin 8	Power Good	



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MECHANICAL SPECIFICATION				
AC Input Connector J1	Molex 3 position, 0.156 center 26-60-4030 (Center Pin removed) 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,2 x 3 Pin terminal block, 2-1776112-3, 3.96mm 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-6M, Housing ,6 pin, 0.156"Pitch Crimp/CONTACT PIN MPN : SVH-41T-P1.1			
Signal Connector J3	Molex 8 Position,0.1" Center,22-23-2081 Vertical Mating ; Molex,22-01-2087, Pins : 08-50-0113			
Size	3 x 5 x 1.5 Inches			

325gms

Weight

