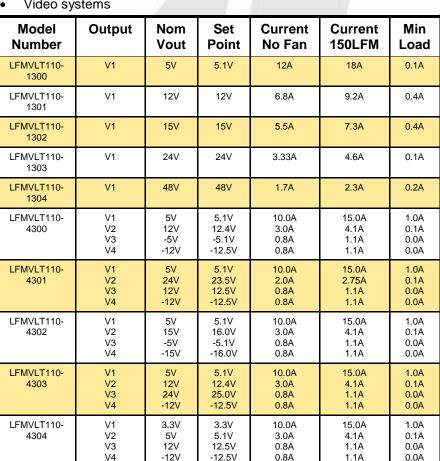
MVLT110 Series

Medical 110 Watt AC/DC Power Supplies

EOS brand LFMVLT110 family of medically certified power supplies utilize our patented resonant technology in a slim line 3"x5"x1" package and over 85% efficiency. Single and quad outputs in all popular DC output configurations are available ranging from 3.3v to 48v. Packing over 8 watts per cubic inch the LFMVLT110 family is ideal for a wide range of medical industry applications where space is a premium, thermal management critical and a known supplier key.

LFMVLT110 has universal 90v to 264v input and meets EN61000-3-2 class A&D harmonics with less than 250 micro amps leakage current. The LFMVLT110 family is RoHs compliant and our factory is ISO 14001 environmentally approved. Worldwide medical safety standards apply and the power supply is fitted with OTP, OVP and OCP standard features. Applications include:

- Endoscopy equipment
- **Defibrillators & Pumps**
- Laboratory gear, IV & drips
- Fluid analyzers
- Respiratory & Diagnostic systems
- Medical lights & cameras
- Video systems





- 110 W Universal input medical AC/DC
- EN55022-B, CISPR22-B FCC Part 15 Level B. IEC60601-1-2
- Low leakage current <250µA
- Ultra high efficiency
- Small 3.04 x 5 x 1.07'
- NEMKO, UL, and CSA approvals to IEC60601

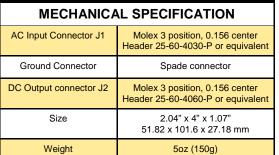
OUTPUT SPECIFICATIONS		
Hold-Up Time	115V	15ms
Voltage Set Point	V1	±3%
Accuracy	V2, V4 V3	±5% +7%, -5%
Line Regulation	Low line to high line	±0.3%
Load Regulation 50% to full load	V1 V2, V4 V3	±1% ±5% +7%, -5%
Transient Response	50% to full load Voltage deviation Recovery time	10%, max <1ms
OVP	V1 only 5V 3.3V	6.4v, +0.4V 4.1V, +0.2v
Overload Protection	Primary Limited	110 to 160W
Short Circuit Protection	Auto Recovery <6s	Short term
Ripple and Noise		1%
Power Fail Signal	TTL active low	1ms warning
Power Good Signal	Delay after V1 high	100ms, min
Output rise time		<40ms

L60601-1 standards. All our by calling +1 805-409-0909 today. hts Reserved.



MVLT110 Series





INPUT SPECIFICATIONS		
AC Input	Universal	90 to 264V
Efficiency	Typical	82%
Input Frequency		47-63 Hz
Input Current	Full Load at low line	2.5Arms , max
Inrush Current	High Line , cold start	65A, max
Leakage Current		<250 μA

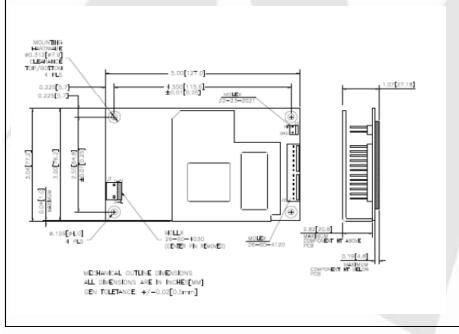
INPUT CONNECTOR J3		INPUT CO	ONNECTOR J1
Pin 1	Common	Pin 1	AC Neutral
Pin2	Power Fail / Good	Pin2	AC Line

1	OUTPUT CONNECTOR J2		
l		Single Output	Quad Output
]	Pins 1, 2 3, 4	V1 V1	
	Pins 5, 6, 7, 8	DC Return	DC Return
	Pins 9, 10	NC	V2
	Pin 11	NC	V3
	Pin 12	NC	V4

INPUT SPADE CONNECTOR	
GND	AC Ground

Total Output Power Rating			
Cooling	Convection	Fan Vin >100V	Fan Vin <100V
Single Output	80W	110W	100W
Quad Output	75W	110W	100W
LFMVLT110-4304	70W	98W	98W
LFMVLT110-1300	62W	92W	92W

ENVIRONMENTAL SPECIFICATIONS		
Operating Temperature	No derating Linear derate to 50%	0 to 50° C 51 to 70° C
Storage Temperature		-40 to 70° C
Cooling	Convection / Fan	80W / 110W
Relative humidity	Non condensing	95%, max
MTBF	MIL - HDBK-217F	> 200,000 hrs



EMC AND SAFETY SPECIFICATIONS		
CE Mark	Complies with the LVD	
EMC	EN5022-B,CISPR22-B, FCC Part 15 Class B, EN50082-1 EN60601-1-2	
Harmonic Correction	EN61000-3-2 Class A	
Agency Approvals	NEMKO , UL, c-UL	
Safety Standards	IEC60601-1, EN60601-1-1, UL60601-1, CSA C22.2 No.6001.1	
Safety file number	NEMKO:P06207072 UL: E173812	

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. **REV 04-09-08**

