

# VLT60 Series

## 60W single and triple output AC/DC Power Supplies



### Features :

- > 60 W convection cooled rating.
- > Small 4.0x2.04x1.07 inch form factor.
- > High efficiency > 82%.
- > Single to triple outputs.
- > EN55022-B, FCC Part 15 Level B.
- > Patented resonant topology
- > Cover Kit accessory available.

The world's top selling 60-watt convection cooled multi-output power supply. The EOS VLT60 family of power supplies is just 4.0"x2.04"x1.07" in size and the industry leader in density and power conversion efficiency.

Packing nearly 8 watts per cubic inch the VLT60 is an industry top seller with multiple outputs, superb efficiency converting AC/DC at >82% and a full 60 watts out put power with convection cooling. The EOS brand VLT60 family is the power supply of choice for discerning engineers across the data-networking, industrial and multimedia industries. An optional cover kit is available. The VLT60 is ideal for 1U (1.75") height and smaller applications where space is a premium and excellent thermal management is key. The VLT60 family is RoHs compliant and our factory is ISO 14001 environmentally approved. Worldwide safety standards apply and the power supply is fitted with OVP and OCP standard features.



### INPUT SPECIFICATION

AC Input	Auto Ranging	90 to 132 V 180 to 264V
Efficiency	VLT60-3203 Other Models	75% Typical 82% Typical
Input Frequency		47-63 Hz
Input Current	Full Load at low line	1.4Arms , max
Inrush Current	High Line , cold start	75A, max

### OUTPUT SPECIFICATION

Output Power	VLT60-1000 VLT60-3003 Other models	50W 45W 60W
Voltage Set Point		See table
Hold-Up Time	115V/230V	6ms/15ms
Voltage Set Point Accuracy	V1 V2 and V3	±3% ±5%
Line Regulation	Low line to high line	± 0.3%
Load Regulation	Min to 50% & 50% to Max Load V1 V2 and V3	±0.5% ±5%
Transient Response	50% to full load Voltage Deviation Recovery Time	10%, max <5 ms
OVP	V1 only 3.3 V V1 only 5V	3.95V, ±0.25V 6.2V, ±0.4V
Overload Protection	Primary limited	Yes, 130%
Short Circuit Protection	Auto recovery <6s	Short Term
Ripple and Noise	3.3V and 5V Other Voltages	65mV 1%
Output Rise Time	All outputs	<100ms

Model Number	Output	Voltage / Current *	Voltage Set Point	Min. Load
VLT60-1000	V1	5V@10.0A	5. 2V	0. 5A
VLT60-1001	V1	12V@5.0A	12V	0. 1A
VLT60-1202	V1	15V@4.0A	15V	0. 1A
VLT60-1003	V1	24V@2.5A	24V	0. 02A
VLT60-1004	V1	48V@1.25A	48V	0.1A
VLT60-3000	V1	5V@8.0A	5. 2V	0. 5A
	V2	12V@3.0A	12. 5V	0. 1A
	V3	-12V@0.5A	-12. 5V	0. 0A
VLT60-3001	V1	5V@8.0A	5. 2V	0. 5A
	V2	24V@1.5A	23. 8V	0. 1A
	V3	-12V@0.5A	-12. 5V	0. 0A
VLT60-3002	V1	5V@8.0A	5. 2V	0. 5A
	V2	15V@2.5A	14. 6V	0. 1A
	V3	-15V@0.5A	-16. 2V	0. 0A
VLT60-3003	V1	3.3V@8.0A	3. 3V	1A
	V2	5V@3.0A	5. 2V	0. 1A
	V3	-12V@0.5A	-12. 8V	0. 0A
VLT60CK	Metal cover kit accessory			

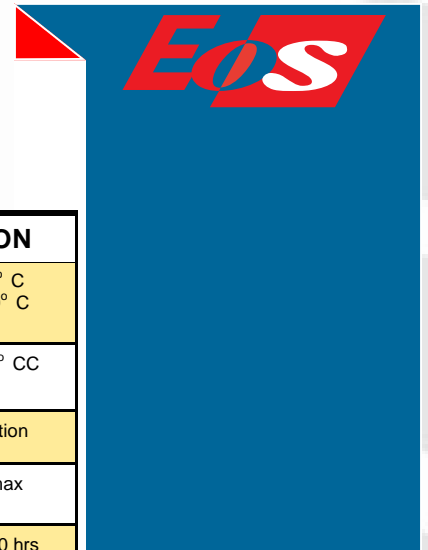
\* Maximum current per output channel. Do not exceed total output power rating

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](http://www.redrocketpower.com) and contact us at: [sales@redrocketpower.com](mailto: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.



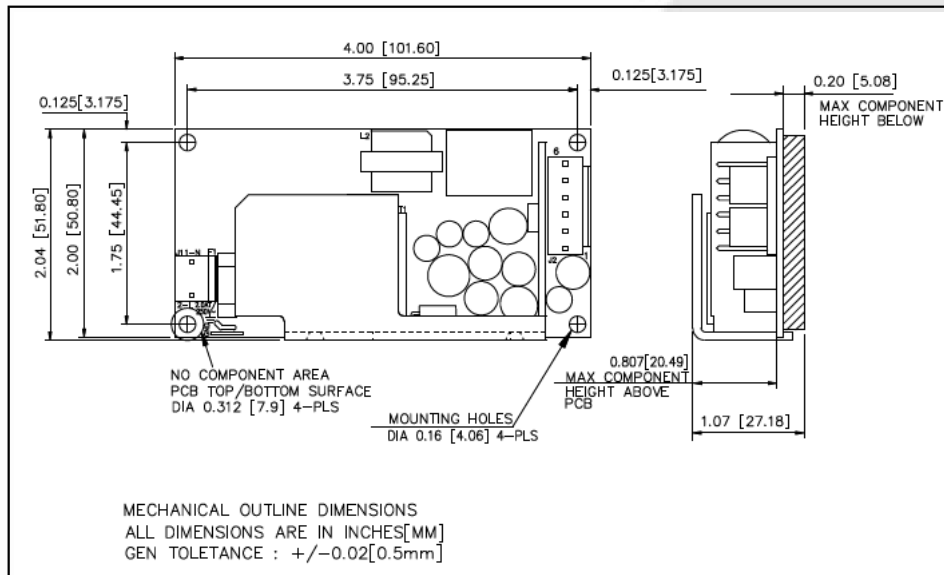
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EMC AND SAFETY SPECIFICATIONS	
CE Mark	Complies with the LVD
EMC	EN5022-B,CISPR22-B, FCC Part 15 Class B, EN50082-1
Agency Approval	VDE , UL, c-UL,NEMKO
Safety Standard	IEC60950, EN60950,UL60950, CSA ,C22.2 No. 60950 Class 1 SELV
Safety File Number	VDE: 114588 UL: E150565 NEMKO: 29343

ENVIRONMENTAL SPECIFICATION		
Operating Temperature	No derating Linear derate to 50%	0 to 50° C 51 to 70° C
Storage Temperature		-40 to 85° CC
Cooling		Convection
Relative humidity	Non condensing	95%, max
MTBF	MIL - HDBK-217F	> 100,000 hrs



OUTPUT CONNECTOR J2		
	Single Output	Triple Output
Pin1	V1	V1
Pin2	V1	V1
Pin3	Common	Common
Pin4	Common	Common
Pin5	NC	V3
Pin6	NC	V2

MECHANICAL SPECIFICATION	
AC Input Connector J1	Molex 3 position, 0.156 center Header 26-60-4030 or equivalent
Ground Connector	Spade connector
DC Output connector J2	Molex 6 position, 0.156 center Header 26-60-4060 or equivalent
Size	4.0"x2.04"x1.07"
Weight	5oz (150g)

INPUT CONNECTOR J1	
Pin1	AC Neutral
Pin2	AC Line

INPUT SPADE CONNECTOR	
GND	AC Ground

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](http://www.redrocketpower.com) and contact us at: [sales@redrocketpower.com](mailto: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.

