

VLT80 Series

80W single and quad output AC/DC Power Supplies

An industry favorite at 80-watts with no fan! Power solutions for 1U height and smaller applications are made easy with the single and quad output versions of the venerable 5.0"x3.040x1.073" EOS VLT80 from Red Rocket, Inc.

All popular DC voltages are offered from 3.3v to 48v with full universal 90v to 264v input and power conversion ratings > 85%. Class A harmonic current correction is featured as is a full 80 watts power with convection cooling. Ideal for data networking, industrial and multimedia applications. The VLT80 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.



Features :

- > 80 W convection cooled rating.
- > Small 5.0x3.04x1.073 inch form factor.
- > High efficiency > 85%.
- > Class A harmonic current correction.
- > EN55022-B, FCC Part 15 Level B.
- > Cover Kit accessory available.

| Model Number | Output | Nom Vout | Set Point | Output Current | Min. Load |
|-------------------------|--------|---------------------------|-----------|----------------|-----------|
| VLT80-1000 ² | V1 | 5V | 5.1V | 12.0A | 1.0A |
| VLT80-1001 ² | V1 | 12V | 12V | 6.8A | 0.4A |
| VLT80-1002 ² | V1 | 15V | 15V | 5.5A | 0.4A |
| VLT80-1003 ² | V1 | 24V | 24V | 3.4A | 0.2A |
| VLT80-1008 ² | V1 | 36V | 36V | 2.2A | 0.2A |
| VLT80-1004 ² | V1 | 48V | 48V | 1.7A | 0.2A |
| VLT80-4000 | V1 | 5V | 5.1V | 10.0A | 1.0A |
| | V2 | 12V | 12.4V | 3.0A | 0.1A |
| | V3 | -5V | -5.1V | 0.8A | 0.0A |
| | V4 | -12V | -12.5V | 0.8A | 0.0A |
| VLT80-4001 | V1 | 5V | 5.1V | 10.0A | 1.0A |
| | V2 | 24V | 23.5V | 2.0A | 0.1A |
| | V3 | 12V | 12.5V | 0.8A | 0.0A |
| | V4 | -12V | -12.5V | 0.8A | 0.0A |
| VLT80-4002 | V1 | 5V | 5.1V | 10.0A | 1.0A |
| | V2 | 15V | 16V | 3.0A | 0.1A |
| | V3 | -5V | -5.1V | 0.8A | 0.0A |
| | V4 | -15V | -16V | 0.8A | 0.0A |
| VLT80-4003 | V1 | 5.0V | 5.1V | 10.0A | 1.0A |
| | V2 | 12V | 12.4V | 3.0A | 0.1A |
| | V3 | 24V | 24V | 0.8A | 0.0A |
| | V4 | -12V | -12.5V | 0.8A | 0.0A |
| VLT80-4004 | V1 | 3.3V | 3.3V | 10.0A | 1.0A |
| | V2 | 5V | 5.1V | 3.0A | 0.1A |
| | V3 | 12V | 12.5V | 0.8A | 0.0A |
| | V4 | -12V | -12.5V | 0.8A | 0.0A |
| VLT80CK | | Metal cover kit accessory | | | |

| INPUT SPECIFICATION | | |
|---------------------|--------------------------|--------------------|
| AC Input | Universal | 90 to 264Vac |
| Efficiency | All Models VLT80-4004 | 85% Typical 80% |
| Input Frequency | | 47-63 Hz |
| Input Current | Full Load at low line | 2.2Arms , max |
| Inrush Current | High Line , cold start | 35A,max |

| OUTPUT SPECIFICATION | | |
|--------------------------------|--|-------------------------|
| Output Power | Convection cool | 80W max |
| Voltage Set Point | | See table |
| Hold-Up Time | 115V | 10ms |
| Voltage Set Point Accuracy | V1 V2,V3,V4 | ±3% ±5% |
| Line Regulation | Low line to high line | ±0.3% |
| Load Regulation | Min to 50% & 50% to Max load V1 V2,V3,V4 | ±1% ±5% |
| Transient Response | 50% to full load Voltage Deviation Recovery Time | 10%, max <1 ms |
| OVP | V1 only %V 3.3V | 6.4V, +0.4V 4.1±0.2V |
| Overload Protection | Primary limited | 88W-128W |
| Short Circuit Protection | Auto recovery <6s | Short Term |
| Ripple and Noise | 3.3V & 5V Other voltages | 50mV 1% |
| Power Fail Signal ² | TTL | 1ms Min. warning |
| Power Good Signal ² | Delay after V1 high | 100ms, min |
| Output Rise Time | | <40ms |

1) Maximum current per output channel. Do not exceed total output power rating.
2) Power fail & Power good signal on quad output models only.

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.

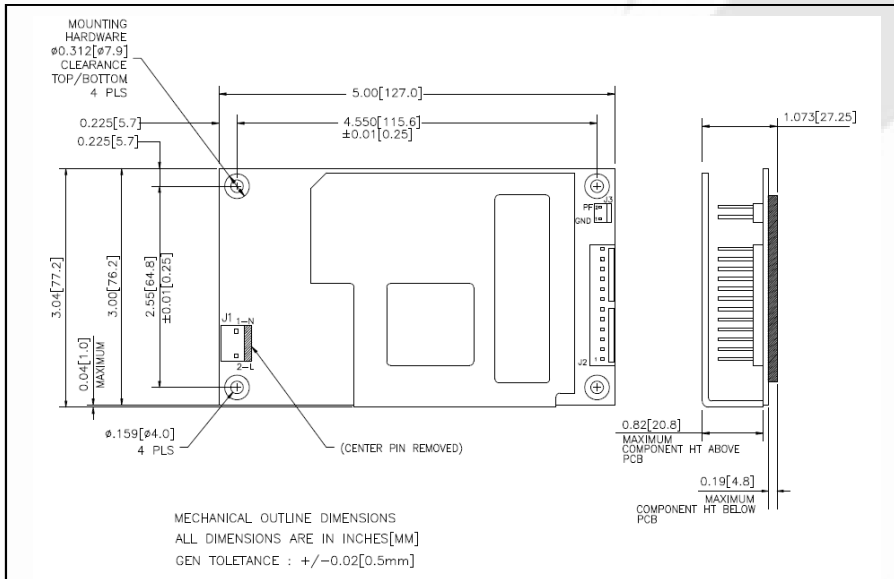


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| EMC AND SAFETY SPECIFICATIONS | | ENVIRONMENTAL SPECIFICATION | | |
|-------------------------------|---|-----------------------------|-------------------------------------|---------------------------|
| CE Mark | Complies with the LVD | Operating Temperature | No derating Linear derate to 50% | 0 to 50° C 51 to 70° C |
| EMC | EN5022-B,CISPR22-B, FCC Part 15 Class B, EN50082-1 | Storage Temperature | | -40 to 70° C |
| Agency Approval | VDE , UL, c-UL,NEMKO | Cooling | Convection | 80W |
| Safety Standard | IEC60950,EN60950,UL60950, CSA ,C22.2 No. 60950 Class 1 SELV | Relative humidity | Non condensing | 95%, max |
| Safety File Number | VDE: 104751 UL: E150565 NEMKO: 41749 | MTBF | MIL - HDBK-217F | > 200,000 hrs |



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

| MECHANICAL SPECIFICATION | |
|--------------------------|--|
| AC Input Connector J1 | Molex 3 position, 0.156 center Header 26-60-4030 or equivalent |
| Ground Connector | Spade connector. 0.25" |
| DC Output connector J2 | Molex12 position, 0.156 center Header 26-60-4120 or equivalent |
| Output connector J3 | Molex 2 position, 0.100 center Header 22-23-2021 or equivalent |
| Size | 5.0x3.04x1.073" |
| Weight | 9oz (250g) |

| INPUT SPADE CONNECTOR | |
|-----------------------|-----------|
| GND | AC Ground |

| INPUT CONNECTOR J1 | |
|--------------------|------------|
| Pin 1 | AC Neutral |
| Pin 2 | AC Line |

| INPUT CONNECTOR J3 | |
|--------------------|-----------------|
| Pin 1 | Common |
| Pin 2 | Power Fail/Good |

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.

