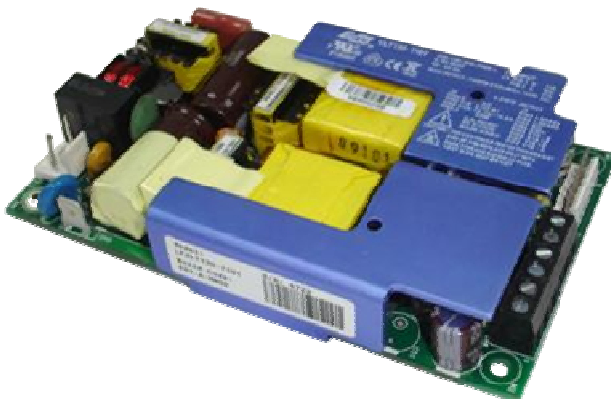


# VLT130 Series

## 130W single and quad output AC/DC Power Supplies

High density and high efficiency are featured in the VLT130 AC/DC power supply. EOS brand VLT130 family of power supplies utilize our patented resonant technology in a slim line 5.0"x3.14"x1.025" package and 82% power conversion efficiency. Single and quad outputs in all popular DC output configurations are available ranging from 3.3v to 48v and single wire current share.

Packing over 8 watts per cubic inch the dual-channel VLT130 family is ideal for data networking, industrial and multimedia applications. VLT130 has auto ranging 90v to 264v input and meets EN55022-B, FCC Part 15 Level B Noise and Class 2 safety approvals. The VLT130 family is RoHs compliant and our factory is ISO 14001 environmentally approved. World-wide safety standards apply and the power supply is fitted with OVP and OCP standard features as well as 1+1 redundancy and harmonic correction.



### Features :

- > 130 W fan cooled rating.
- > Smallest 130W Ac/Dc power Supply
- > Small 5.0x3.14x1.025 inch form factor.
- > Dual channel output
- > EN61000-3-2 class A harmonics.
- > EN55022 and FCC Part 15 Level B
- > Cover Kit accessory available.

| Model Number             | Output                    | Output Voltage | Set Point | Current No Fan | Current 15CFM |
|--------------------------|---------------------------|----------------|-----------|----------------|---------------|
| VLT130-1106 <sup>2</sup> | V1                        | 3.3V           | 3.3V      | 20.0A          | 32.0A         |
| VLT130-1100 <sup>2</sup> | V1                        | 5V             | 5.1V      | 16.0A          | 25.5A         |
| VLT130-1101 <sup>2</sup> | V1                        | 12V            | 12.0V     | 6.6A           | 10.8A         |
| VLT130-1102 <sup>2</sup> | V1                        | 15V            | 15.0V     | 5.4A           | 8.7A          |
| VLT130-1103 <sup>2</sup> | V1                        | 24V            | 24.0V     | 3.3A           | 5.4A          |
| VLT130-1104 <sup>2</sup> | V1                        | 48V            | 48.0V     | 1.7A           | 2.7A          |
| VLT130-4100              | V1                        | 5V             | 5.1V      | 10.0A          | 14.0A         |
|                          | V2                        | 3.3V           | 3.3V      | 10.0A          | 16.0A         |
|                          | V3                        | 12V            | 12.7V     | 1.0A           | 1.5A          |
|                          | V4                        | -12V           | -12.7V    | 1.0A           | 1.5A          |
| VLT130-4101              | V1                        | 5V             | 5.1V      | 10.0A          | 14.0A         |
|                          | V2                        | 3.3V           | 3.3V      | 10.0A          | 16.0A         |
|                          | V3                        | 24V            | 24.0V     | 1.0A           | 1.5A          |
|                          | V4                        | -12V           | -12.7V    | 1.0A           | 1.5A          |
| VLT130-4102              | V1                        | 5V             | 5.1V      | 10.0A          | 14.0A         |
|                          | V2                        | 3.3V           | 3.3V      | 10.0A          | 16.0A         |
|                          | V3                        | 15V            | 16.3V     | 1.0A           | 1.5A          |
|                          | V4                        | -15V           | -16.3V    | 1.0A           | 1.5A          |
| VLT80CK                  | Metal cover kit accessory |                |           |                |               |

| INPUT SPECIFICATION |                        |                           |
|---------------------|------------------------|---------------------------|
| AC Input            | Auto Ranging           | 90 to 132V<br>180 to 264V |
| Efficiency          |                        | 82% Typical               |
| Input Frequency     |                        | 47-63 Hz                  |
| Input Current       | Full Load at low line  | 2.9Arms , max             |
| Inrush Current      | High Line , cold start | 40A,max                   |

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 [www.eospower.com](http://www.eospower.com). EOS brand power supplies and patents are owned exclusively by EOS Power. All Rights Reserved.



# VLT130 Series

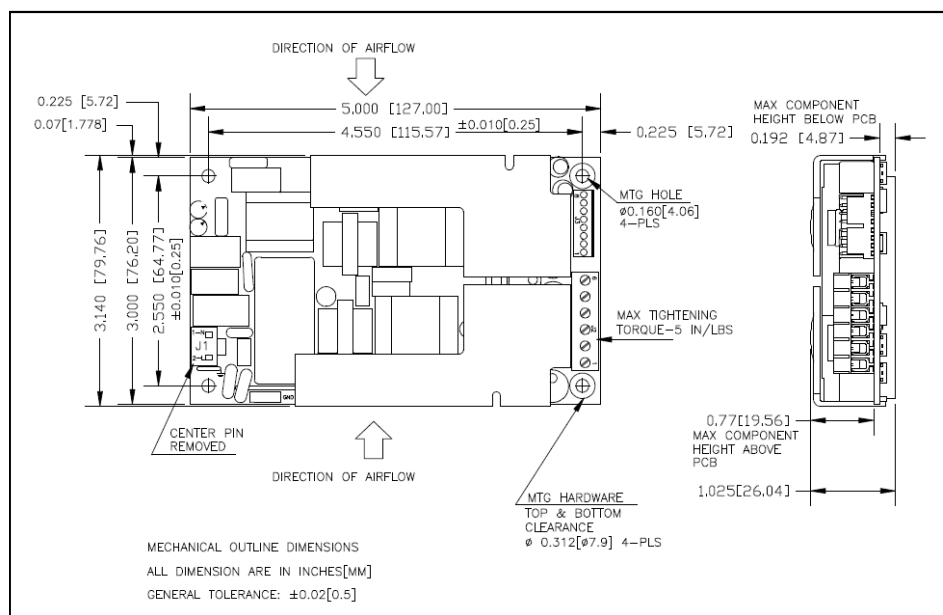
## 130W single and quad output AC/DC Power Supplies



| OUTPUT SPECIFICATION                               |   |                            |
|--|---|----------------------------|
| Output Power <sup>4,5</sup>                        | All Outputs No Fan<br>All Outputs with Fan              | 80W max<br>130W max        |
| DC Output  |   | See Table                  |
| Hold-Up Time                                       | 115V/230V   | 10ms                       |
| Set Point Accuracy                                 | V1 and V2<br>V3 and V4                                  | ±1%<br>±5%                 |
| Line Regulation                                    | Low line to high line                                   | ±0.3%                      |
| Load Regulation                                    | Mini to 50% &<br>50% Max Load<br>V1 and V2<br>V3 and V4 | ±1%<br>±5%                 |
| Minimum Load<br>Single o/p models;<br>Other models | 3.3V & 5V<br>V1 & V2<br>V3 & V4                         | 3A<br>0.5A<br>0.1A         |
| Transient Response<br>to full load                 | 50% to Full Load<br>Voltage deviation<br>Recovery Time  | <7%<br><1ms                |
| OVP  | 3.3V Output<br>5V Output                                | 5.1V, ±0.5V<br>6.2V, ±0.4V |
| Overload Protection                                | Primary limited   | 195W, ±35W                 |
| Short Circuit Protection                           | Auto recovery <6s                                       | Short Term                 |
| Ripple and Noise                                   | 3.3V & 5V<br>Other voltages                             | 50mV<br>1%                 |
| Power Fail Signal <sup>2</sup>                     | TTL   | 2ms warning                |
| Remote Sense                                       | Line compensation<br>on V1 and V2                       | 400mV                      |
| Power Good <sup>2</sup>                            | Delay after V1 high                                     | 30ms, min                  |
| Output Rise Time                                   |   | <10ms                      |
| Redundancy   | 130W Max  | 1+1                        |
| Paralleling Function                               |   | No                         |

| ENVIRONMENTAL SPECIFICATION |                |              |
|-----------------------------|----------------|--------------|
| Operating Temperature       | No derating    | 0 to 50° C   |
| Storage Temperature         |                | -40 to 85° C |
| Cooling                     | Convection     | 80W          |
| Relative humidity           | Non condensing | 95%, max     |
| MTBF                        | Bellcore TR332 | >150,000 hrs |

| EMC AND SAFETY SPECIFICATIONS |   |
|-------------------------------|---|
| CE Mark                       | Complies with the LVD                                     |
| EMC                           | EN5022-B, CISPR22-B,<br>FCC Part 15 Class B,<br>EN50082-1 |
| Agency Approval               | VDE , UL, c-UL  |
| Safety Standard               | IEC60950, EN60950,<br>UL60950, Class 1 SELV               |
| Safety File Number            | VDE: 18934-3336<br>UL: E150565                            |



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# VLT130 Series

## 130W single and quad output AC/DC Power Supplies



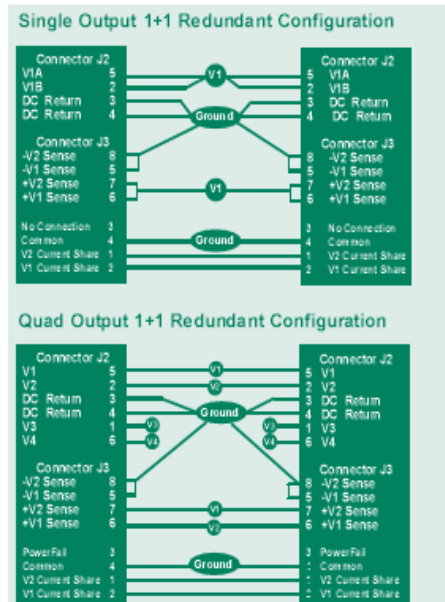
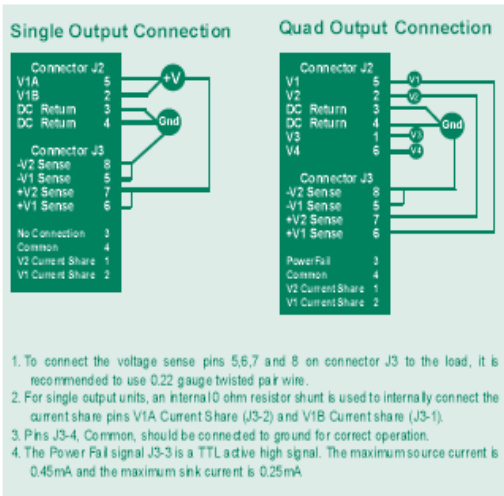
| MECHANICAL SPECIFICATION |  |
|--------------------------|--|
| AC Input Connector J1    | Molex 3 position, 0.156 center Header 26-60-4030 or equivalent |
| Ground Connector         | Spade connector.   |
| DC Output connector J2   | Tyco 282841-6 terminal block or equivalent                     |
| Output connector J3      | Molex22-23-2081 or equivalent                                  |
| Size                     | 5.0x3.14x1.025"  |
| Weight                   | 12oz (340g)  |

| INPUT CONNECTOR J1 |         |
|--------------------|---------|
| Pin1               | Neutral |
| Pin2               | Line    |

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

| OUTPUT CONNECTOR J2 |               |             |
|---------------------|---------------|-------------|
|                     | Single Output | Quad Output |
| Pin1                | No Connection | V3          |
| Pin2                | V1B           | V3          |
| Pin3                | Dc Return     | DC Return   |
| Pin4                | Dc Return     | Dc Return   |
| Pin5                | V1A           | V1          |
| Pin6                | No Connection | V4          |

| OUTPUT CONNECTOR J3 |                  |                  |
|---------------------|------------------|------------------|
|                     | Single Output    | Quad Output      |
| Pin1                | V1 Current Share | V2 Current Share |
| Pin2                | V1 Current Share | V1 Current Share |
| Pin3                | No Connection    | Power Fall       |
| Pin4                | Common           | Common           |
| Pin5                | -V1A Sense       | -V1 Sense        |
| Pin6                | +V1A Sense       | +V1 Sense        |
| Pin7                | +V1B Sense       | +V2 Sense        |
| Pin8                | -V1B Sense       | -V2 Sense        |



Note:

1. Maximum current per output. Do not exceed maximum output power rating.
2. Power good and Power Fail signal on quad output models only.
3. The use of the Remote Sense function required 15CFM airflow.
4. Quad output Models: The output section of the VLT130-4XXX is split into 2 independently regulated channels. Channel A consists of the main output V1 and auxiliary output v4. channel B consist of the main output V3 and auxiliary output V3. The maximum output power that may be drawn per channel is 45W with convection cooling or 65W with fan cooling.
5. Single output models: The output section of the VLT130-1XXX is split into 2 independently regulated channels. Channel A consist of the main output V1A. Channel B consist of the main output V1B. An internal shunt resistor of value 0 ohms connect both channels of the power supply. In an event whereby this shunt resistor is removed, the maximum output power that may be drawn per channel is 45W with convection cooling or 65W with fan cooling.

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