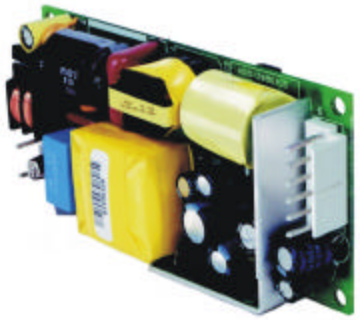
# EOS V-Series
OPEN-FRAME POWER SUPPLIES

# VLT25 Series

Single and triple output 25W open-frame AC-DC power supplies

## Small and Efficient.



The EOS VLT25 Series AC/DC open-frame power supply is in a league all its own. It is the smallest, most efficient and highest current density 25-watt AC/DC power supply available today. Packaged in a 2" x 4" x 1" footprint, the VLT25 converts AC to DC power at greater than 80% efficiency. It outperforms any other 25-watt open-frame switching power supply anywhere.

The EOS VLT25 Series of single and triple output power supplies is available with a variety of DC output voltages and currents, including the popular 3.3V. Power densities exceed 3 watts per cubic inch and the VLT25 has over voltage protection, MTBFs exceeding 100,000 hours, and convection cooling. Worldwide safety agency approvals round out the picture making the VLT25 Series ideal for a myriad of applications including data networking, telecommunications, computers and peripherals, touch screen displays, and point of sale equipment.

Just slightly larger than a business card, the VLT25's small size and high efficiency allow engineers more room to design end-products with greater functionality and higher reliability, making it the open-frame switching power supply of choice among OEMs worldwide.

### *FEATURES:*

- Very High Efficiency: 80% typical
- High Power Density: over 3 watts/inch$^3$
- Ultra Miniature Size: 2” x 4” x 1”
- Lightweight: only 6 ounces
- Auto Select Input: 90-132VAC/180-264 VAC
- Over Current Protection (OCP)
- Operating Temperature: 0 to 50$^\circ$ C
- Convection Cooled
- Reliability: MTBFs above 100,000 hours
- Meets Worldwide Safety Standards
- CE Marked

### *APPLICATIONS:*

- Telecommunications
- Data Networking Equipment
- Computer Peripherals
- Touch Screen Displays
- Point of Sale Equipment
- Industrial Control
- Other Electronic OEMs

EOS™
*Highest Density*
*Smallest Size*
*Most Efficient*

# EOS V-Series
SPECIFICATIONS

# VLT25 Series

## INPUT

| | |
|---|---|
| **AC Input** | 90 - 132 VAC and 180 - 264 VAC, auto ranging |
| **Efficiency** | 80% typical |
| **Input Frequency** | 47–63 Hz |

## OUTPUT

| | |
|---|---|
| **Output Power** | 25W continuous |
| **DC Output Voltage/Current** | Refer to voltage/current charts |
| **Hold-Up Time** | 6 milliseconds at full load, 115VAC |
| **Line Regulation** | 0.3%, over entire operating range |
| **Load Regulation** | 0.5% on V1, 5% on V2 & V3, from min. to max. load |
| **Output Protection** | Overcurrent and short circuit protection |
| **Ripple and Noise** | 50mV or 1% of Vnominal, whichever is greater |
| **Turn-on Delay** | 4 seconds max at 115VAC |

## ENVIRONMENTAL

| | |
|---|---|
| **Operating Temperature** | 0 to 50°C at full rated output power |
| **Storage Temperature** | –40°C to +70°C |
| **Humidity** | 5 to 95%, non-condensing |
| **Cooling** | Convection |

## EMI AND SAFETY

| | |
|---|---|
| **EMI/RFI** | Conducted: CISPR 55024 & CISPR 55014, Class B, FCC Part 15, Class B |
| **Leakage Current** | 500uA, maximum |
| **CE Mark** | Full compliance with LVD and EMC directives |
| **Safety Standards** | Meets worldwide safety standards: IEC950, EN60950, UL1950 Class 1, SELV |
| **Agency Approvals** | UL, c-UL, VDE |
| **MTBF** | 100,000 hours at 25°C minimum |

## MECHANICAL

| | |
|---|---|
| **Dimensions** | 2.00" x 4.00" x 1.07" |
| **Weight** | 6 ounces maximum |
| **AC Input Connector** | Molex 3 position (ctr position voided), 0.156 ctr header |
| **DC Output Connector** | Molex 6 position, 0.156 center header |

## OUTPUT VOLTAGE/CURRENT RATING CHART

| Model Number | Number of Outputs | Output Number | Output Voltage | Maximum Current |
|---|---|---|---|---|
| VLT25-1200 | 1 | V1 | 5V | 5.0A |
| VLT25-1201 | 1 | V1 | 12V | 2.1A |
| VLT25-1202 | 1 | V1 | 15V | 1.7A |
| VLT25-1203 | 1 | V1 | 24V | 1.1A |
| VLT25-3200 | 3 | V1 | 5V | 4.0A |
| | | V2 | 12V | 1.5A |
| | | V3 | -12V | 0.5A |
| VLT25-3201 | 3 | V1 | 5V | 4.0A |
| | | V2 | 24V | 1.0A |
| | | V3 | -12V | 0.5A |
| VLT25-3202 | 3 | V1 | 5V | 4.0A |
| | | V2 | 15V | 1.5A |
| | | V3 | -15V | 0.5A |
| VLT25-3203 | 3 | V1 | 3.3V | 4.0A |
| | | V2 | 5V | 2.0A |
| | | V3 | -12V | 0.5A |

Highest Density
Smallest Size
Most Efficient

***Consult your local representative or the factory for custom requirements or modifications to standard products.*** *Specifications are subject to change without notice.*