

EOS V-Series

OPEN-FRAME POWER SUPPLIES

Single and quad output 80W medically certified open-frame AC-DC power supplies

Highest density, medically certified.

The EOS MVLT80 Series of open-frame switching AC/DC power supplies is the most efficient and densely packaged medically certified 80-watt power supply in the world today. Efficiencies exceed 86% and package densities are greater than 5.3 watts per cubic inch.

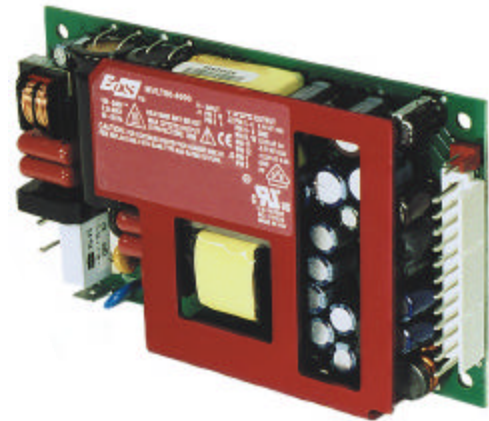
The MVLT80 Series is available in single and multiple output versions with various popular voltage and current options, including 3.3V. Used by OEMs for various non patient connect medical applications including hospital data systems, health care information systems, touch screen displays, and dental, outpatient, and medical research equipment, the MVLT100 Series is the ideal solution for any medical application.

The EOS MVLT80 Series of open-frame power supplies is the favorite among OEMs worldwide. With popular features such as convection cooling, MTBFs over 200,000 hours, and worldwide medical certifications, the MVLT80 Series is the number one choice of OEMs in the electrical medical equipment field.



Highest Density
Smallest Size
Most Efficient

MVLT80 Series



FEATURES:

- Very High Efficiency: 85% typical
- High Power Density: over 5.3 watts/inch³
- Ultra Miniature Size: 3" x 5" x 1"
- Lightweight: only 9 ounces
- Universal Input: 90 - 264 VAC
- Overload and Short Circuit Protection
- Operating Temperature: 0 to 50° C
- Convection Cooled
- Reliability: MTBFs above 200,000 hours
- Meets EN60601, IEC601, UL2601 standards
- CE Marked

APPLICATIONS:

- Hospital Data Systems
- Health Care Information Systems
- Touch Screen Displays
- Dental Equipment
- Outpatient Equipment
- Medical Research Equipment
- Other Non Patient Connect Medical Equipment

EOS V-Series SPECIFICATIONS

MVLT80 Series

5INPUT

AC Input	90 - 264 VAC, single phase
Efficiency	85% typical
Input Frequency	47-63 Hz

OUTPUT

Output Power	80W continuous
DC Output Voltage/Current	Refer to voltage/current charts
Hold-Up Time	10 milliseconds at full load, 115VAC
Line Regulation	0.3%, over entire operating range
Load Regulation	1% on V1, 5% on V2, V3 & V4, from min. to max. load
Output Protection	Overload and short circuit protection
Ripple and Noise	50mV or 1% of Vnominal, whichever is greater
Turn-on Delay	5 seconds max at 120VAC

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

EM/RFI	Conducted: CISPR 11 & CISPR 14 Class B, FCC Part 15, Class B
Leakage Current	250uA, maximum
CE Mark	Full compliance with LVD and EMC directives
Safety Standards	Meets worldwide safety standards: IEC601, EN60601, UL2601 Class 1, SELV
Agency Approvals	UL, c-UL, VDE
MTBF	200,000 hours at 25°C minimum

MECHANICAL

Dimensions	3.00" x 5.00" x 1.02"
Weight	9 ounces maximum
AC Input Connector	Molex 3 position (ctr position voided), 0.156 ctr header
DC Output Connector	Molex 12 position, 0.156 center header

OUTPUT VOLTAGE/CURRENT RATING CHART

Model Number	Number of Outputs	Output Number	Output Voltage	Maximum Current
MVLT80-1000	1	V1	5V	12.0A
MVLT80-1001	1	V1	12V	6.5A
MVLT80-1002	1	V1	15V	5.5A
MVLT80-1003	1	V1	24V	3.5A
MVLT80-1004	1	V1	48V	1.7A
MVLT80-4000	4	V1	5V	10.0A
		V2	12V	3.0A
		V3	-5V	0.8A
		V4	-12V	0.8A
MVLT80-4001	4	V1	5V	10.0A
		V2	24V	2.0A
		V3	12V	0.8A
		V4	-12V	0.8A
MVLT80-4002	4	V1	5V	10.0A
		V2	16V	3.0A
		V3	-5V	0.8A
		V4	-15V	0.8A
MVLT80-4003	4	V1	5V	10.0A
		V2	12V	3.0A
		V3	24V	0.8A
		V4	-12V	0.8A
MVLT80-4004	4	V1	3.3V	10.0A
		V2	5V	3.0A
		V3	12V	0.8A
		V4	-12V	0.8A



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.

