

EOS V-Series

OPEN-FRAME POWER SUPPLIES

MVLT40 Series

Single and triple output medically certified 40W open-frame AC-DC power supplies

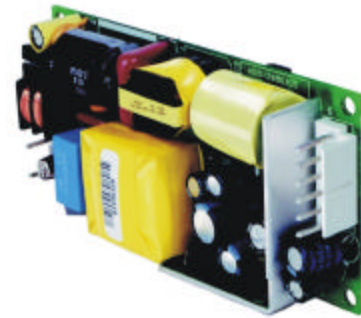
Medically certified, smallest footprint.

With a footprint of just 2" x 4" x 1" and power densities of over 5 watts per cubic inch, the EOS MVLT40 is the smallest medically certified 40-watt open-frame switching power supply in existence.

The single and triple output AC-DC power supply has efficiencies of 83%, reducing component stress and manufacturing costs while maximizing available space, as additional fans are not needed to maintain cool operation. The exceptional benefits afforded by the MVLT40 Series are realized by designers of non patient-connect medical applications including hospital data systems, health care information systems, touch screen displays, as well as dental, outpatient, and medical research equipment.

The MVLT40 is medically certified, meeting UL2601, IEC601, and EN60601 worldwide safety standards. The MVLT40 comes with popular 3.3V, 5V, 12V, 15V and 24V outputs.

Setting a new industry standard in size, efficiency, and power density, it's no wonder the EOS MVLT40 Series is the open-frame switching power supply of choice among demanding medical manufacturers worldwide.



FEATURES:

- Very High Efficiency: 83% typical
- High Power Density: over 5 watts/inch³
- 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° C
- Convection Cooled
- Reliability: MTBFs above 100,000 hours
- Meets Worldwide Safety Standards
- CE Marked

APPLICATIONS:

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



Highest Density
Smallest Size
Most Efficient

EOS V-Series

SPECIFICATIONS

MVLT40 Series

INPUT

AC Input	90 - 132 VAC and 180 - 264 VAC
Efficiency	83% typical
Input Frequency	47-63 Hz

OUTPUT

Output Power	40W 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

EM/RFI	Conducted: CISPR 55024 & CISPR 55014, 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	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
MVLT40-1200	1	V1	5V	8.0A
MVLT40-1201	1	V1	12V	3.5A
MVLT40-1202	1	V1	15V	2.7A
MVLT40-1203	1	V1	24V	1.7A
MVLT40-3200	3	V1	5V	6.0A
		V2	12V	2.0A
		V3	-12V	0.5A
MVLT40-3201	3	V1	5V	6.0A
		V2	24V	1.0A
		V3	-12V	0.5A
MVLT40-3202	3	V1	5V	6.0A
		V2	15V	1.5A
		V3	-15V	0.5A
MVLT40-3203	3	V1	3.3V	6.0A
		V2	5V	3.0A
		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.

