

EOS V-Series

OPEN-FRAME POWER SUPPLIES

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

Smallest 25W Medical Switcher.

The EOS MVLT25 Series is the smallest, most efficient medically certified 25-watt open-frame switcher in existence today. Measuring just 2" x 4" x 1" and exceeding power densities of 3 watts per cubic inch, it sets a new industry standard in the medical power supply market.

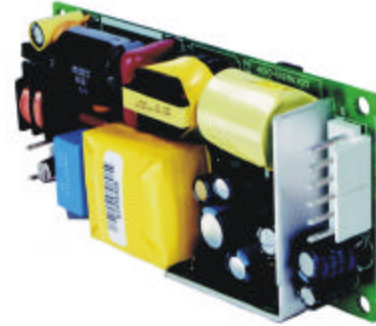
Convection cooling yields a high efficiency of over 80% and eliminates the need for fans, making it the switcher of choice among medical OEMs worldwide. Meeting UL2601, IEC601, and EN60601 worldwide safety standards, the MVLT25 is ideal for non patient-connect medical applications including hospital data systems, health care information systems, touch screen displays, as well as dental, outpatient, and medical research equipment. The MVLT25 comes with popular 3.3V, 5V, 12V, 15V and 24V outputs.

High MTBFs, over current protection, and reduced component parts assure design engineers that by using the EOS MVLT25 Series, their products will be of the highest quality at the lowest manufacturing cost. Measuring slightly larger than a doctor's hand-held pager, the MVLT25 Series is the most densely packaged medically certified power supply available today.



Highest Density
Smallest Size
Most Efficient

MVLT25 Series



FEATURES:

- Very High Efficiency: 80% typical
- High Power Density: over 3 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

EOS V-Series

SPECIFICATIONS

MVLT25 Series

INPUT

AC Input	90 - 132 VAC and 180 - 264 VAC
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% from minimum to maximum load
Output Protection	Overvoltage, power limit, 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
MVLT25-1200	1	V1	5V	5.0A
MVLT25-1201	1	V1	12V	2.1A
MVLT25-1202	1	V1	15V	1.7A
MVLT25-1203	1	V1	24V	1.1A
MVLT25-3200	3	V1	5V	4.0A
		V2	12V	2.0A
		V3	-12V	0.5A
MVLT25-3201	3	V1	5V	4.0A
		V2	24V	1.0A
		V3	-12V	0.5A
MVLT25-3202	3	V1	5V	4.0A
		V2	15V	1.5A
		V3	-15V	0.5A
MVLT25-3203	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.

