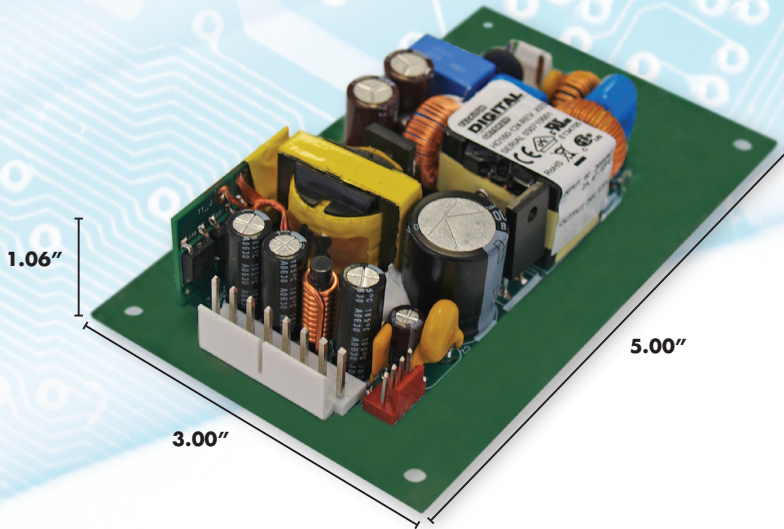


# HV160 Series

## 160 Watt High Density AC/DC Power Supply



### PRODUCT DESCRIPTION

The HV160 Series is an industry standard 3 x 5" footprint open-frame switching power supply. These power supplies utilize advanced component and circuit technologies to deliver a 160 Watt high performance switcher. The series has been designed for Medical, Telecom and Industrial Applications to satisfy 1U height considerations, the package measures only 5.00 x 3.00 x 1.06". All models offer universal AC input with active power factor correction (PFC), flexible output configurations and compliance to worldwide safety and EMC standards. Features include:

- 160W compact high-density models
- High power density in the industry standard 3 x 5" Footprint
- Universal AC input with PFC
- Low Profile / 1U Package
- Convection cooled operation up to 100 Watts
- RoHS compliant
- High efficiency operation of 90% (Typical)
- International regulatory approvals

### INPUT

AC Input Voltage	90-264VAC (47-63Hz) or 170-370 VDC
Input Current	2A Max Continuous
Input Reflected Ripple	FCC 68 part 15 Class B
Power Factor Correction	0.98 at 220VAC (typical)
Input Line Protection	3A 250VAC IEC Type
Hold-up Time	>16msec @ Full Load
Efficiency	90% Typical
Leakage	100/200uA @ 115/230 VAC (max)

### OUTPUT

Line Regulation	$\pm 0.1\%$ for $V_{in}$ (min.) to $V_{in}$ (max.)
Load Regulation	$V1 = \pm 1\%$ / $V2 = \pm 5\%$ Max
Adjustment Range	$\pm 5\%$ Minimum
Min. Load Requirement	None
Ripple	$\pm 1\%$ (20MHz)
Transient Response	Better than 5% For 50% Step Load
Over-Voltage Protection	115-150% (Latched Shut-down)
Turn-On Delay	1 Sec. Max.
Initial Setting Accuracy	$\pm 1\%$
Over-Current	110-130% of I-Max (Auto-Recovery)

### ELECTROMAGNETIC COMPATIBILITY

Electrostatic Discharge	EN61000-4-2, $\pm 4KV$ Contact / $\pm 8KV$ Air Discharge
Radiated Susceptibility	EN61000-4-3, 26-1000MHz, 10V/M, 80% AM
EFT / Bursts	EN61000-4-4, $\pm 2KV$
Surges	EN61000-4-5, $\pm 2KV$ Line-Earth, $\pm 1KV$ Line-Line
Conducted Immunity	EN61000-4-6, 0.15-800MHz, 10V, 80% AM
Voltage Dips	EN61000-4-11, 95% Dip & 10ms, 30% Dip & 500ms
Voltage Interruptions	EN61000-4-11, 95% Reduction, 5s
Fluctuations & Flicker	EN61000-3-3

### ENVIRONMENTAL

Operation Temperature	-20 ~ +50C Derate of 2.5%/C up to +70C
Storage Temperature	-20C ~ +85C
Cooling	Forced Air Cooling 200LFM 100W Max Convection
Humidity	Up to 95% RH Non-condensing
Shock & Vibration	0.75G Peak Half Sine, 6 Axes
MTBF	>300,000 Hours

### SAFETY & EMISSIONS

Safety Approvals	Industrial / Telecom: UL/cUL60950, EN60950 Medical: UL/cUL60601-1, EN60601-1 CE Mark (LVD)
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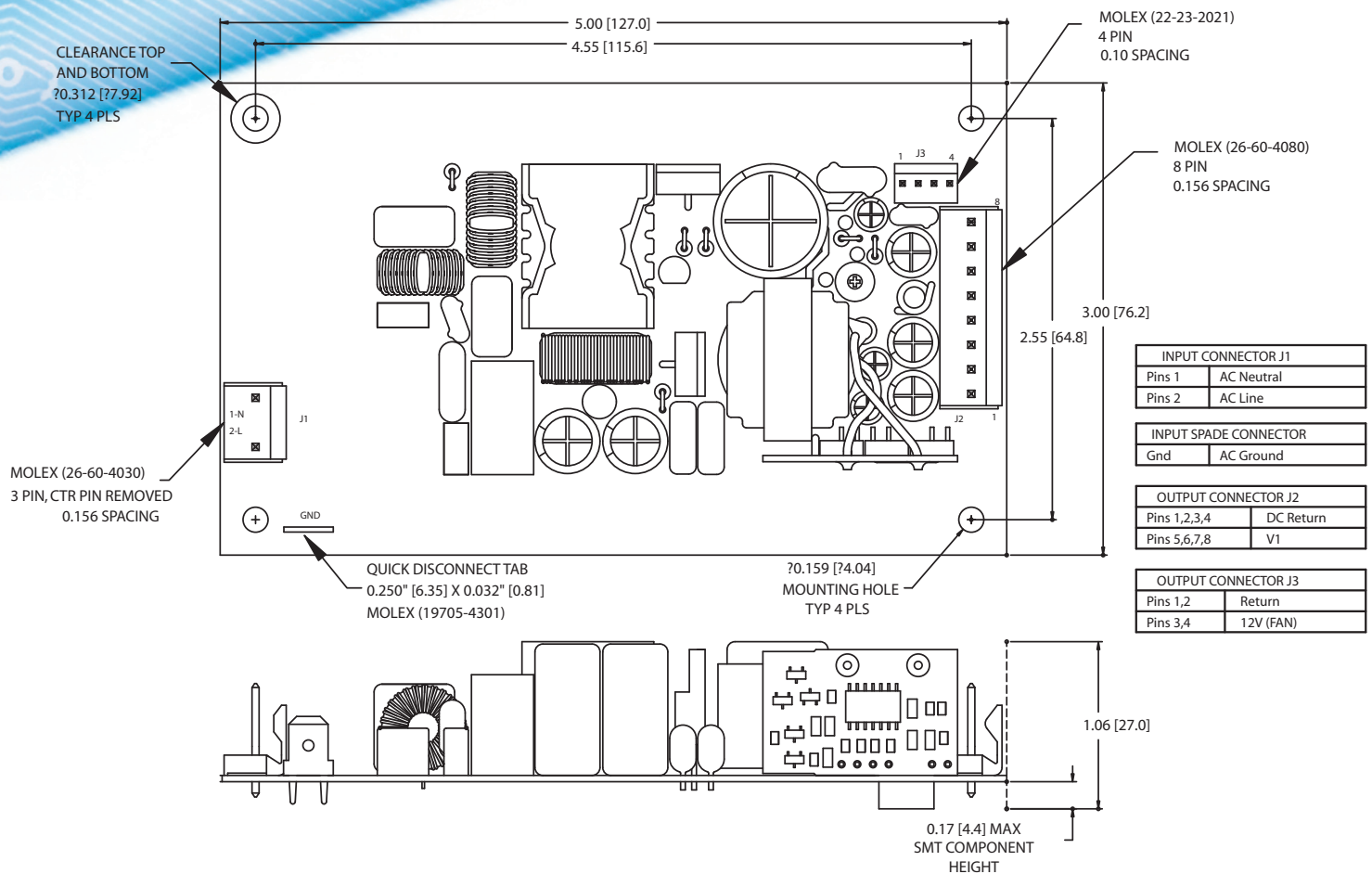
## 160 Watt High Density AC/DC Power Supply

### Model Selection Guide

#### 200 LFM AIRFLOW RATINGS

Model	Output Power	V1 Output	V2 Output
HV160-105	112 Watts	+5V @ 20A	+12V @ 1A
HV160-112	160 Watts	12V @ 13.3A	+12V @ 1A
HV160-124	160 Watts	24V @ 6.66A	+12V @ 1A
HV160-148	160 Watts	48V @ 3.33A	+12V @ 1A

Contact factory for other voltage configurations.



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