HVDC SERIES
270 VDC SINGLE OUTPUT
DC TO DC CONVERTER
1000 WATTS 2.60” x 5.00” x 10.00”
RUGGED, DC AIRCRAFT POWER

APPLICATIONS
The HVDC family of DC-DC Converters was designed to satisfy airboune and ground support equipment for military aircraft applications. The HVDC series is especially suitable for critical system support testing where 270 VDC output voltage is required. Available also in standard 19” rack mount designs and individual units can be paralleled for increased power levels.

 AVAILABLE OPTIONS
• Redundant Operation (N+1)
• Ruggedized For Severe Environment
• Parallel Operation
• Rack Mount / Panel Mount
• Conformal Coating (High Humidity)

STANDARD FEATURES
• Compact Design
• Tightly Regulated
• OV/OL/OT Protected
• LED Indicator (Input Good & Output Good)
• MTBF > 100,000
• Internal Fan
• “Rugged” Construction
• Terminal Block Input
• Sub-D Connector for Output

SPECIFICATIONS
INPUT SPECIFICATIONS:
Input: 22-32 VDC (Prefix P) 42 - 56 VDC (Prefix Q)
Efficiency:  85% Typical

OUTPUT SPECIFICATIONS
Voltage Adjustment:  Fixed Output
Line Regulation: 1%
Load Regulation: 3%
Set Point Accuracy: ±1%
Protection: Overcurrent, Overvoltage, Overtemperature
Overvoltage Protection: 115-150% of V1 nominal

ENVIRONMENTAL SPECIFICATIONS
Operating Temperature: -20°C to +50°C Derate to 50% @ +70°C
Storage Temperature: -40°C to +85°C max Relative Humidity
Cooling: Internal ball bearing DC fan
Humidity: 20-90% RH non condensing
Shock/Vibration: 20G, designed to meet MIL-STD-810
Shock: 20G Peak Acceleration
Weight: Approx: 4 lbs
Size: 2.60” x 5.00” x 10.00”
### MODEL SELECTION

<table>
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<th>MODEL</th>
<th>NOMINAL VOLTAGE (VDC)</th>
<th>MAXIMUM CURRENT (ADC)</th>
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<th>NOMINAL VOLTAGE (VDC)</th>
<th>MAXIMUM CURRENT (ADC)</th>
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<td>PHVDC-270-3</td>
<td>270</td>
<td>3.7A</td>
<td>QHVDC-270-3</td>
<td>270</td>
<td>3.7A</td>
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24 VDC INPUT 48 VDC INPUT

**NOTE:** THIS UNIT MAY BE USED AS A FRONT END MODULE TO RUN A POWER FACTOR CORRECTED AC POWER SUPPLY FROM 24 V OR 48 V INPUT.

### OPTION DESIGNATIONS

<table>
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<td>Redundant Operation</td>
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<tr>
<td>-MIL</td>
<td>Ruggedized/Militarized</td>
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<td>-HSP</td>
<td>Hot Swap</td>
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<td>-PAR</td>
<td>Parallel Operation</td>
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<td>-CC</td>
<td>Conformal Coating</td>
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<td>-RK</td>
<td>Rack Mount</td>
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### MECHANICAL OUTLINE

**TOP VIEW**

**SIDE VIEW**

**BOTTOM VIEW**

**FRONT VIEW**

**REAR VIEW**

12x DRILL & INSTALL PEM NUT F-632-2 FAR SIDE (MOUNTING)

AIR EXHAUST VENTS