APPLIED POWER CONVERSION Division of TECHNOLOGY DYNAMICS INC.

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.

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

AVAILABLE OPTIONS

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



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% Protections: Overcurrent, Overvoltage, Overtemperature Overlvoltage 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"



Design Excellence since 1976!

MODEL SELECTION

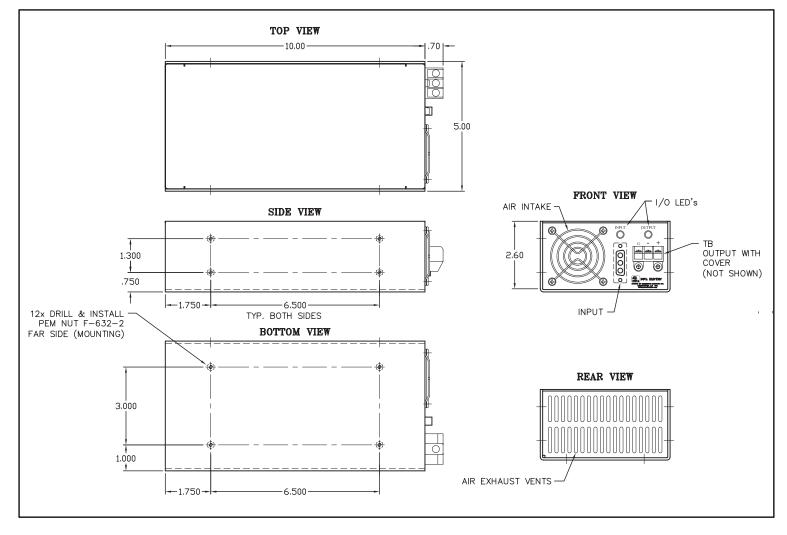
1000 WATTS					
MODEL	NOMINAL VOLTAGE (VDC)	MAXIMUM CURRENT (ADC)	MODEL	NOMINAL VOLTAGE (VDC)	MAXIMUM CURRENT (ADC)
PHVDC-270-3	270	3.7A	QHVDC-270-3	270	3.7A
24 VDC INPUT			48 VDC INPUT		

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

SFX.	Options Designations		
-ORD	Redundant Operation		
-MIL	Ruggedized/Militarized		
-HSP	Hot Swap		
-PAR	Parallel Operation		
-CC	Conformal Coating		
-RK	Rack Mount		

MECHANICAL OUTLINE



Rev. A

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

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