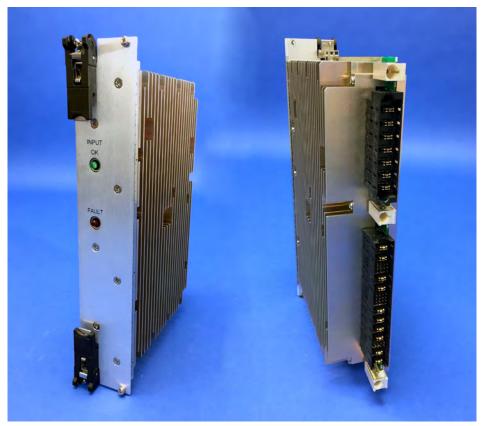
VPX-700P-CONV-10HP

700 Watts Convection Cooled

OpenVPX VITA 62 Compliant



KEY FEATURES:

- 700 Watts in a 6U x 10HP x 160mm Modular Design
- Wide Range AC Input with Active Power Factor Correction
- Meets MIL-STD-1399, Section 300A (Type 1) for the Voltage Range Specified
- VITA 62 Outputs; +12V/30A, +5V/40A, Aux_+3.3V/40A, Aux_+12V/1A, Aux_-12V/1A
- No Minimum Load Required
- Custom Input/Output Configurations Available
- N+1 Redundant with Internal Oring FET's/Diodes
- VITA 62 Convection Cooled Style
- · Side Covers Support Two-Level Military Maintenance Requirements
- Ruggedized Mechanical Design
- One Year Warranty
- · Greater than 150,000 Hrs MTBF
- · Proudly Made in U.S.A.

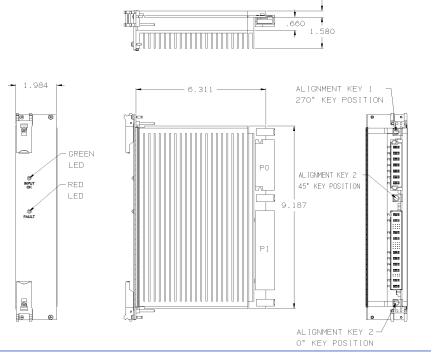




VPX-700P-CONV-10HP

PO - AC/DC INPUT CONNECTOR TE CONNECTIVITY P/N 6450843-6			
PIN NO.	SIGNAL		
P7	AC-L		
P6	N/C		
P5	N/C		
P4	AC-N		
P3	+360VDC DPTION		
P2	-360VDC DPTION		
P1	CHASSIS GND		

P1 - DC DUTPUT CONNECTOR				
TE CONNECTIVITY P/N 6450849-6				
PIN NO.	SIGNAL	PIN NO.	SIGNAL	
P10	+12V/30A	D5	SDA	
P9	+12V/30A	A4	GA3*	
A9	+12V_SENSE	B4	GA2*	
B9	+12V_SENSE	C4	GA1*	
C9	+5V SENSE	D4	GAO*	
D9	N/C	A3	N/C	
A8	+12V_SENSE_RTN	В3	+12V_AUX/1A	
B8	+12V_SENSE_RTN	C3	NED	
C8	+5V_SENSE_RTN	D3	NED_RTN	
D8	N/C	P6	+5V/40A	
A7	N/C	P5	+5V/40A	
B7	N/C	P4	POWER_RTN	
C7	N/C	P3	POWER_RTN	
D7	SIGNAL_RTN	A2	VBAT	
P8	POWER_RTN	B2	FAIL*	
P7	POWER_RTN	C2	INHIBIT*	
A6	N/C	D2	ENABLE*	
B6	N/C	A 1	N/C	
C6	-12V_AUX/1A	B1	N/C	
D6	SYSRESET*	C1	N/C	
A5	GAP*	D1	N/C	
B5	GA4*	P2	+3.3V_AUX/40A	
C5	SCLK	P1	POWER_RTN	



Nominal Input Voltage

Frequency

115/230 Vac, 7/4A max. 47-63 Hz, 400Hz.

Operational Input Voltage Range

100-264 VAC, 700W output, derate to 600W at 90VAC. Power factor is 0.99 typical at full load.

Meets EN 61000-3-2.

Inrush Current

Less than 4 msec. 40 amperes @ 115 Vac

or 80 amperes @ 264 Vac.

Brownout Protection:

Holds Regulation to 85 Vac.

Fusing 16 Ampere, 250 Vac, Internal ceramic body fuse.

Hold up time 20msec minimum after loss of AC Input at full load

and any input Efficiency 85% typical

Turn on time 1 sec max. from power up. Line and Load ±2% over AC input range and Regulation 0 to 100% load change. Minimum Load No minimum load required.

Ripple & Noise Through 20MHz 1% max. or 50mv whichever

is greater for all outputs, peak to peak, with coaxial probe and 0.1uF/10uF capacitors at the connector.

Output maximum excursion of \pm 5% for 25% load **Transient Response**

step. Recovery less than 500 µsec.

Overshoot Less than 5%.

Output Isolation Isolated from chassis ground, 100Vdc. Input/Output Isolation 1500Vdc from input to both chassis/outputs.

Reverse Voltage Protected against reverse voltage to supply

current rating.

Overvoltage Shutdown at 130% of nominal Vout. Protection Recycle input power to reset.

Overtemperature Protection

Unit shuts down if overheated. Recycle input.

Leakage Current 1.5mA max at 240Vac.

Current Limiting All outputs protected with current limit.

Automatic recovery when overload or short is removed.

Redundant Full power N+1 redundant with integral Oring

FET's/Diodes.

Two or more supplies can be operated in parallel and **Paralleling**

will share +12V and +5V current to within ±10% of

each other.

Remote Sense Compensates for up to 0.5V total distribution voltage

drop on the +12V and +5V outputs.

Enable* VITA 62 compliant. Reference SPI's VPX Signal data sheet

for more details.

INHIBIT* VITA 62 compliant. Reference SPI's VPX Signal data sheet

for more details.

SYSRESET* VITA 62 compliant. Reference SPI's VPX Signal data sheet

for more details.

FAIL* VITA 62 compliant. Reference SPI's VPX Signal data sheet

for more details.

VITA 62 compliant. Reference SPI's VPX Signal data sheet NED

for more details.

VBAT VITA 62 compliant. Reference SPI's VPX Signal data sheet

for more details.

Geographical VITA 62 compliant. Reference SPI's VPX Signal data sheet

Addressing for more details.

Protocol (I2C) VITA 62 compliant. Reference SPI's VPX Signal data sheet

for more details.

Indicators Green LED indicating Input OK, Red LED indicating

a power supply fault.

Cooling 400 Lfpm of forced air required through heat exchanger.

Operating Temperature -40°C to 65°C operating temperature with specified air

Stability All outputs 0.1% for 8 hrs. after 30 minute warm-up.

Humidity Up to 95% non-condensing.

-55°C to 105°C. Storage Temperature Connectors VITA 62 compliant

Size 6U x 10HP x 160mm Weight: 6 lbs.

EMC Designed to meet Mil-Std-461F with SPI's external filter,

Top Assembly 25860, or equivalent.

Common Options Conformal coating with Paylene & special output

configurations. Consult factory for more details on a tailored solution which meets your requirements.

REV: D