

VPX-300P-CONV-10HP

300 Watts

Convection Cooled

OpenVPX VITA 62 Compliant

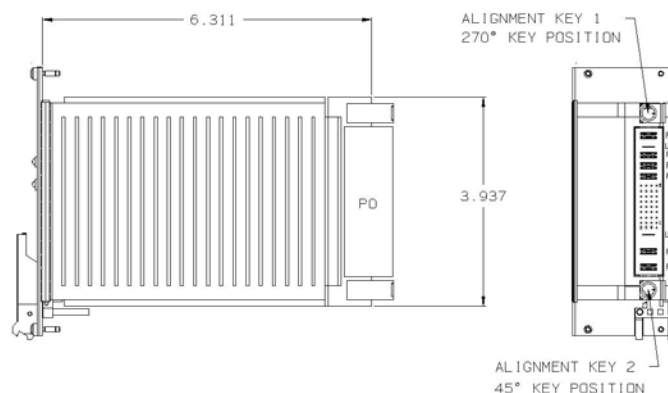
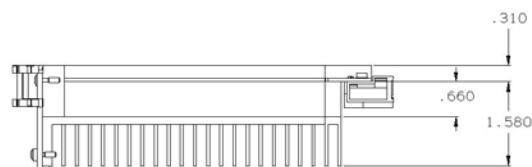
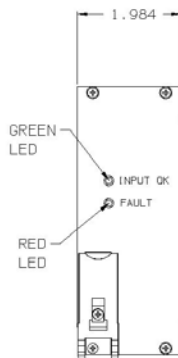


KEY FEATURES:

- 300 Watts in a 3U 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/10A, +3.3V/20A, +5V/20A, Aux_+12V/1A, Aux_-12V/.75A, Aux_+3.3V/2A
- 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-300P-CONV-10HP

P0 - INPUT/OUTPUT CONNECTOR TE CONNECTIVITY P/N 6450849-7			
PIN NO.	SIGNAL	PIN NO.	SIGNAL
P1	ACN	A6	N/C
P2	ACL	B6	N/C
LP1	CHASSIS GND	C6	-12V_AUX/0.75A
A1	GA2*	D6	SYSRESET*
B1	N/C	A7	N/C
C1	N/C	B7	N/C
D1	N/C	C7	N/C
A2	VBAT	D7	SIGNAL_RETURN
B2	FAIL*	A8	+12V_SENSE
C2	INHIBIT*	B8	+3.3V_SENSE
D2	ENABLE*	C8	+5V_SENSE
A3	N/C	D8	SENSE_RETURN
B3	+12V_AUX/1A	P3	+5V/20A
C3	NED	P4	POWER_RETURN
D3	NED_RETURN	P5	POWER_RETURN
A4	3.3V_AUX	LP2	+3.3V/20A
B4	3.3V_AUX	P6	+12V/10A
C4	3.3V_AUX		
D4	3.3V_AUX		
A5	GA0*		
B5	GA1*		
C5	SCLK		
D5	SDA		



Nominal Input Voltage Frequency	115/230 Vac, 3.0/1.5A max. 47-63 Hz, 400Hz.
Operational Input Voltage Range	90-264 VAC. Power factor is 0.99 typical at full load. Meets EN 61000-3-2.
Inrush Current	Less than 4 msec. 30 amperes @ 115 Vac or 60 amperes @ 264 Vac.
Brownout Protection:	Holds Regulation to 85 Vac.
Fusing	6.3 Ampere, 250 Vac, Internal ceramic body fuse.
Hold up time	20msec minimum after loss of AC input at full load and any input.
Efficiency	81% typical
Turn on time	1 sec max. from power up.
Line and Load Regulation	±2% over AC input range and 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.
Transient Response	Output maximum excursion of ± 5% for 25% load step. Recovery less than 500 µsec.
Overshoot	Less than 5%.
Output Isolation	Isolated from chassis ground, 100Vdc.
Input/Output Isolation	2200 Vdc from input to both chassis/outputs. SELV construction.
Reverse Voltage	Protected against reverse voltage to supply current rating.
Overvoltage Protection	Shutdown at 130% of nominal Vout. 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.

Paralleling	Two or more supplies can be operated in parallel and will share +12V/+3.3V/+5V current to within ±10% of each other.
Remote Sense	Compensates for up to 0.5V total distribution voltage drop on the +12V, +3.3V 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.
NED	VITA 62 compliant. Reference SPI's VPX Signal data sheet for more details.
VBAT	VITA 62 compliant. Reference SPI's VPX Signal data sheet for more details.
Geographical Addressing	VITA 62 compliant. Reference SPI's VPX Signal data sheet 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	-20°C to +65°C operating temperature with specified airflow.
Stability	All outputs 0.1% for 8 hrs. after 30 minute warm-up.
Humidity	Up to 95% non-condensing.
Storage Temperature	-40°C to 105°C.
Connectors	VITA 62 compliant
Size	3U x 10HP x 160mm Weight: 3.00 lbs.
EMC	Designed to meet Mil-Std-461F with SPI's external filter, Top Assembly 25880, or equivalent.
Common Options	Conformal coating with Paylene & special output configurations. Consult factory for more details on a tailored solution which meets your requirements.