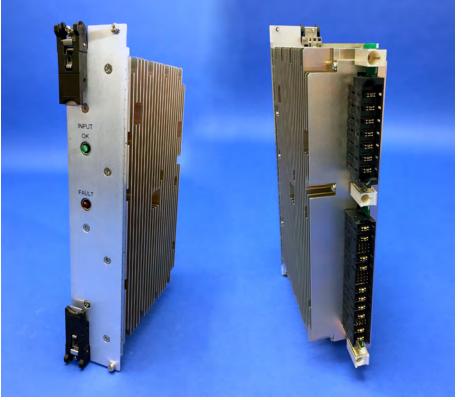
VPX-700-3P-CONV-10HP

700 Watts Convection Cooled OpenVPX VITA 62 Compliant



KEY FEATURES:

- 700 Watts in a 6U x 10 HP x 160mm Modular Design
- 3-Phase AC Input with Power Factor Correction Exceeding 0.95 at Full Load
- Meets MIL-STD-704 A with External Capacitance
- 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.
- Standard Unit Pricing; 10 pieces \$11,949* / 25 pieces \$11,890* / 50 pieces 11,860*

*2023 dollars



3601 Veterans Highway Ronkonkoma, New York 11779 Tel: 631-981-7231 Fax: 631-981-7266





VPX-700-3P-CONV-10HP

P0 - AC-DC INPUT CONNECTOR TE CONNECT(V)TY P-N 6450843-6 P1 NO. SIGNAL P7 P7 ØA P6 98 P5 ØC P4 NEUTRAL P3 N/C P3 N/C				.310 .660 .580
P2 N/C P1 CHASSIS GND P1 - DC DUTPUT CONNECTOR TE CONNECT (VITY P/N 6	IN ND. SIGNAL 5 SDA 4 GA3+ 4 GA2+ 4 GA2+ 4 GA1+ 4 GA0+ 3 N/C 3 +12V AUX/1A 3 NED 8 +12V AUX/1A 3 NED RTN 6 +5V/40A 5 +5V/40A 5 +5V/40A 5 +5V/40A 5 +5V/40A 4 POWER RTN 3 POWER RTN 3 POWER RTN 2 FAIL# 2 INHIBIT* 2 ENABLE* 1 N/C 1 N/C			PO PO PO PO PO PO PO PO PO PO PO PO PO P
A5 GAP+ □ B5 GA4+ P. C5 SCLK P	2 +3.3V_AUX-40A 1 POWER_RTN 115/200 Vac 3-Phase		Paralleling	Two or more supplies can be operated in parallel and
Frequency Operational Input Voltage Range	47-63 Hz , 400Hz. The steady-state voltage average for the three phases is within the limits of MIL-STD-704 A.		Remote Sense	will share +12V & +5V current to within ±10% of each other.
Input Load Balance	Load Balance Current loading for any phase does not exceed the average of the currents in all 3 phases by more than 5%.		Enable*	drop on the +12V and +5V outputs. VITA 62 compliant. Reference SPI's VPX Signal data sheet
Inrush Current	Less than 4 msec. 60 amperes @ 200 Vac			for more details.
Fusing	(3 X 6.3 Ampere)/250 Vac, Very fast acting. Internal ceramic body fuses.		INHIBIT*	VITA 62 compliant. Reference SPI's VPX Signal data sheet for more details.
Hold up time	20msec minimum after loss of AC Input at full load and any input.		SYSRESET*	VITA 62 compliant. Reference SPI's VPX Signal data sheet for more details.
Efficiency	85% typical		FAIL*	VITA 62 compliant. Reference SPI's VPX Signal data sheet for more details.
Turn on time Line and Load Regulation	1 sec max. from power up. ±2% over AC input range and 0 to 100% load change.		NED	VITA 62 compliant. Reference SPI's VPX Signal data sheet for more details.
Minimum Load	No minimum load required.		VBAT	VITA 62 compliant. Reference SPI's VPX Signal data sheet
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.		Geographical Addressing	for more details. VITA 62 compliant. Reference SPI's VPX Signal data sheet for more details.
Transient Response	Output maximum excursion of \pm 5% for 25% load		Protocol (I ² C)	VITA 62 compliant. Reference SPI's VPX Signal data sheet for more details.
Overshoot	step. Recovery less than 500 μsec. Less than 5%.		Indicators	Green LED indicating Input OK, Red LED indicating a power supply fault.
Output Isolation	Isolated from chassis ground, 100Vdc.		Cooling	400 Lfpm of forced air is required through the heat
Input/Output Isolation	1500Vdc from input to both chassis/outputs.		Operating Temperature	exchanger. -40°C to 65°C operating temperature with specified
Reverse Voltage	Protected against reverse voltage to supply current rating.		Stability	airflow. All outputs 0.1% for 8 hrs. after 30 minute warm-up.
Overvoltage	Shutdown at 130% of nominal Vout.		Humidity	Up to 95% non-condensing.
Protection Overtemperature	Recycle input power to reset. Unit shuts down if overheated. Recycle input.		Storage Temperature	-55°C to 105°C.
Protection	onit shuts down in overneated. Necycle input.		Connectors	VITA 62 compliant
Leakage Current	3.5mA max at 200Vac.		Size	6U x 10HP x 160mm Weight: 6 lbs.
Current Limiting	All outputs protected with current limit. Automatic recovery when overload or short is removed.		EMC	Designed to meet Mil-Std-461F (excluding CE101) with SPI's external filter, Top Assembly 25870, or equivalent.
Redundant	Full power N+1 redundant with integral Oring FET's/Diodes.		Common Options	Conformal coating with Paylene & special output configurations. Consult factory for more details on a tailored solution which meets your requirements.