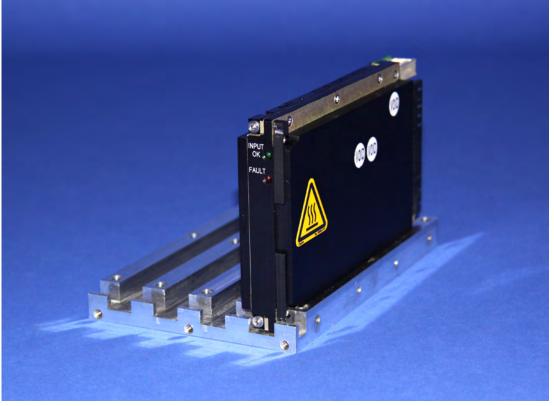
VPX-300-P

300 Watts Conduction Cooled OpenVPX VITA 62 Compliant



KEY FEATURES:

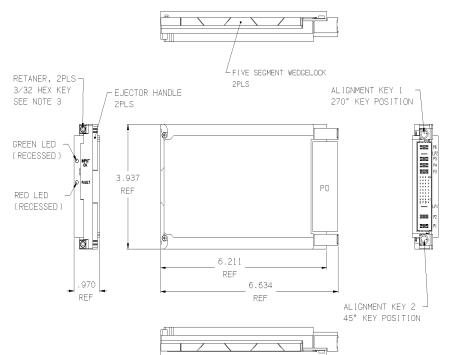
- 300 Watts in a 3U x 5 HP (1") x 160mm Modular Design
- Wide Range AC Input with Active Power Factor Correction
- Meets MIL-STD-1399, Section 300A (Type 1) for the Voltage Range Specified
- VITA 62 Outputs; +12V/10A, +3.3V/20A, +5V/20A, Aux_+12V/1A, Aux_-12V/.75A, Aux_+3.3V/2A
- No Minimum Load Required
- Custom Input/Output Configurations Available
- N+1 Redundant with Internal Oring FET's/Diodes
- VITA 62 Card Guide Style Conduction Cooled
- 1 Inch Pitch Form Factor with Wedge Lock Retainers
- 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.



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

VPX-300-P

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		Α7	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	2A	P6	+12V/10A		
C4	3.3V_AUX					
D4	3.3V_AUX					
A5	GAO*					
B5	GA1*					
C5	SCLK					
D5	SDA					



Nominal Input Voltage Frequency	115/230 Vac, 3.0/1.5A max. 47-63 Hz , 400Hz.	Paralleling	Two or more supplies can be operated in parallel and will share $+12V/+3.3V/+5V$ current to within $\pm10\%$ of each
Operational Input	90-264 VAC. Power factor is 0.99 typical at full load. Meets EN 61000-3-2.	Remote Sense	other. Compensates for up to 0.5V total distribution voltage drop on the +12V, +3.3V and +5V outputs.
Voltage Range Inrush Current	Less than 4 msec. 30 amperes @ 115 Vac		
iniusii Gurient	or 60 amperes @ 264 Vac.	Enable* INHIBIT*	VITA 62 compliant. Reference SPI's VPX Signal data sheet for more details. VITA 62 compliant. Reference SPI's VPX Signal data sheet for more details.
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.	SYSRESET*	VITA 62 compliant. Reference SPI's VPX Signal data sheet for more details.
Efficiency	81% typical	FAIL*	VITA 62 compliant. Reference SPI's VPX Signal data sheet for more details.
Turn on time	1 sec max. from power up.	NED	VITA 62 compliant. Reference SPI's VPX Signal data sheet
Line and Load Regulation	±2% over AC input range and 0 to 100% load change.		for more details.
Minimum Load	No minimum load required.	VBAT	VITA 62 compliant. Reference SPI's VPX Signal data sheet for more details.
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	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.
	step. Recovery less than 500 µsec.	Indicators	Green LED indicating Input OK, Red LED indicating a power supply fault.
Overshoot	Less than 5%.		
Output Isolation	Isolated from chassis ground, 100Vdc.	Cooling	Conduction cooled via wedge lock retainers.
Input/Output Isolation	1500 Vdc from input to both chassis/outputs.	Operating Temperature	
		Stability	All outputs 0.1% for 8 hrs. after 30 minute warm-up.
Reverse Voltage	Protected against reverse voltage to supply current rating.	Humidity	Up to 95% non-condensing.
Overvoltage	Shutdown at 130% of nominal Vout.	Storage Temperature	-55°C to 105°C.
Protection	Recycle input power to reset.	Connectors	VITA 62 compliant
Overtemperature	Unit shuts down if overheated. Recycle input.	Size	3U x 5HP (1") x 160mm Weight: 1.75 lbs.
Protection	1 5-1 4	EMC	Designed to meet Mil-Std-461F with SPI's external filter, Top Assembly 25880, or equivalent.
Leakage Current	1.5mA max at 240Vac.		
Current Limiting	All outputs protected with current limit. Automatic recovery when overload or short is removed.	Common Options	Conformal coating with Paylene & special output configurations. Consult factory for more details on a tailored solution which meets your requirements.
Redundant	Full power N+1 redundant with integral Oring FET's/Diodes.		