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.





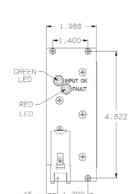


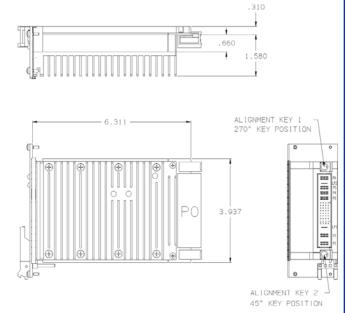


VPX-300P-CONV-10HP

PO - 1	NPUT/OUTPUT	CONNE	TOP	
	E CONNECTIV			-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*	GA2*		SYSRESET*
B1	N/C		A7	N/C
C1	N/C	N/C		N/C
D1	N/C	N/C		N/C
A2	VBAT	VBAT		SIGNAL RETURN
B2	FAIL*	FAIL*		+12V SENSE
C2	INHIBIT*	INHIBIT*		+3.3V SENSE
D2	ENABLE*	ENABLE*		+5V SENSE
A3	N/C		D8	SENSE RETURN
В3	+12V_AUX/	+12V_AUX/1A		+5V/20A
C3	NED	NED		POWER RETURN
D3	NED RETUR	NED RETURN		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*	GAO*		
B5	GA1*	GA1*		
C5	SCLK			
D5	SDA			

FET's/Diodes.





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 ±10% of each
Operational Input Voltage Range	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
Inrush Current	Less than 4 msec. 30 amperes @ 115 Vac or 60 amperes @ 264 Vac.	Enable*	drop on the +12V, +3.3V and +5V outputs. VITA 62 compliant. Reference SPI's VPX Signal data sheet
Brownout Protection:	Holds Regulation to 85 Vac.		for more details.
Fusing	6.3 Ampere, 250 Vac, Internal ceramic body fuse.	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	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 for more details.
Line and Load Regulation	±2% over AC input range and 0 to 100% load change.		
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	Geographical Addressing	VITA 62 compliant. Reference SPI's VPX Signal data sheet for more details.
	probe and 0.1uF/10uF capacitors at the connector.	Protocol (I ² C) Indicators	VITA 62 compliant. Reference SPI's VPX Signal data sheet for more details. Green LED indicating Input OK, Red LED indicating a power supply fault.
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.	Cooling	400 Lfpm of forced air required through heat exchanger.
Input/Output Isolation	1500Vdc from input to both chassis/outputs.	Operating Temperature	-40°C to +65°C operating temperature with specified airflow.
Reverse Voltage	Protected against reverse voltage to supply	Stability	All outputs 0.1% for 8 hrs. after 30 minute warm-up.
	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 Protection	Unit shuts down if overheated. Automatic recovery.	Size	3U x 10HP x 160mm Weight: 3.00 lbs.
Leakage Current	1.5mA max at 240Vac.	EMC	Designed to meet Mil-Std-461F with SPI's external filter, Top Assembly 25880, or equivalent.
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		

solution which meets your requirements.