VPX-400-DC-28

400 Watts Conduction Cooled OpenVPX VITA 62 Compliant



KEY FEATURES:

- 400 Watts in a 3U x 5 HP (1") x 160mm Modular Design
- 28Vdc Input per MIL-STD-704 Versions E & F
- VITA 62 Outputs; +12V/17A, +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.

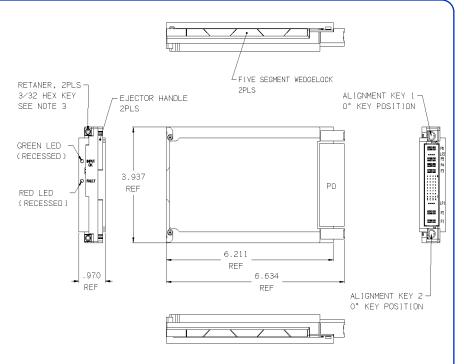


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PO - INPUT/OUTPUT CONNECTOR					
TE CONNECTIVITY P/N 6450849-7					
PIN NO.	SIGNAL	PIN NO.	SIGNAL		
P1	-DC_IN	A6	N/C		
P2	+DC_IN	B6	N/C		
LP1	CHASSIS GND	C6	-12V_AUX/0.75A		
A1	GA2*	D6	SYSRESET*		
B1	N/C	A7	N/C		
C1	N/C	B7	N∕C		
D1	N/C	C7	N/C		
A2	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 ZA	P6	+12V/17A		
C4	3.3V_AUX				
D4	3.3V_AUX				
A5	GAO*				
B5	GA1*				
C5	SCLK				
D5	SDA				



Nominal Input Voltage	28 Vdc, 17A.	Redundant	Full power N+1 redundant with integral Oring FET's/Diodes.
Operational Input Voltage Range	22-29 Vdc, with input transient protection to 18 & 50 Vdc for 50 ms exceeding limits per MIL-STD-704E/F.	Remote Sense	Compensates for up to 0.5V total distribution voltage drop on the +12V, +3.3V and +5V outputs.
Inrush Current	Less than 4 msec, 30 amperes @ 28 Vdc.	Enable*	VITA 62 compliant. Reference SPI's VPX Signal data sheet for more details.
Reverse Input Protection:	Reverse input protection to rated DC voltage.	INHIBIT*	VITA 62 compliant. Reference SPI's VPX Signal data sheet
Fusing	30 Ampere, 58 Vdc, internal body fuse.		for more details.
Hold up time	1msec minimum after loss of DC Input at full load and at 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	1 sec max. from power up. ±2% over DC input range and	NED	VITA 62 compliant. Reference SPI's VPX Signal data sheet for more details.
Regulation Minimum Load	0 to 100% load change. 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.
Transient Response	probe and 0.1uF/10uF capacitors at the connector. 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, 100 Vdc.	Cooling	Conduction cooled via wedge lock retainers.
Input/Output Isolation	1500 Vdc from input to both chassis/outputs. SELV construction.	Operating Temperature	-40°C to 85°C (at wedge lock edge) 400W
Reverse Voltage	Protected against reverse voltage to supply current rating.	Stability	All outputs 0.1% for 8 hrs. after 30 minute warm-up.
		Humidity	Up to 95% non-condensing.
Overvoltage Protection	Shutdown at 130% of nominal Vout. Recycle input power to reset.	Storage Temperature	-55°C to 85°C.
Protection Overtemperature Protection	Unit shuts down if overheated. Recycle input.	Connectors	VITA 62 compliant
		Size	3U x 5HP (1") x 160mm Weight: 1.75 lbs.
Current Limiting	All outputs protected with current limit. Automatic recovery when overload or short is removed.	EMC	Designed to meet Mil-Std-461F with an external filter.
Paralleling	Two or more supplies can be operated in parallel and will share $\pm 12V$ / $\pm 3.3V$ / $\pm 5V$ current to within $\pm 10\%$ of each other.	Common Options	Conformal coating with Paylene & special output configurations. Consult factory for more details on a tailored solution which meets your requirements.