

VPX-400-DC-270

400 Watts

Conduction Cooled

OpenVPX VITA 62 Compliant

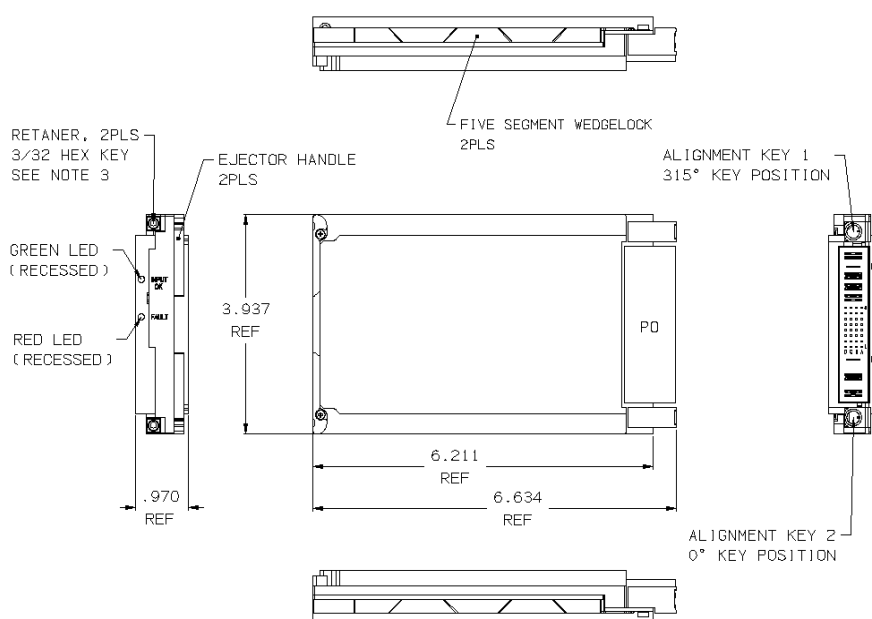


KEY FEATURES:

- 400 Watts in a 3U x 5 HP (1") x 160mm Modular Design
- 270Vdc 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.

VPX-400-DC-270

P0 - 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	P6	+12V/17A
C4	3.3V_AUX		
D4	3.3V_AUX		
A5	GA0*		
B5	GA1*		
C5	SCLK		
D5	SDA		



Nominal Input Voltage	270 Vdc, 1.75A.
Operational Input Voltage Range	240-290 Vdc, with input transient protection to 200 & 370 Vdc for 50 ms exceeding limits per MIL-STD-704E/F.
Inrush Current	Less than 4 msec, 60 amperes @ 270 Vdc.
Reverse Input Protection:	Reverse input protection to rated DC voltage.
Fusing	3.15 Ampere, 400 Vdc, Internal ceramic body fuse.
Hold up time	20msec minimum after loss of DC Input at full load and nominal input.
Efficiency	85% typical
Turn on time	1 sec max. from power up.
Line and Load Regulation	±2% over DC 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, 100 Vdc.
Input/Output Isolation	1500Vdc from input to both chassis/outputs.
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.
Current Limiting	All outputs protected with current limit. Automatic recovery when overload or short is removed.
Paralleling	Two or more supplies can be operated in parallel and will share +12V/+3.3V/+5V current to within ±10% of each other.

Redundant	Full power N+1 redundant with integral Oring FET's/Diodes.
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	Conduction cooled via wedge lock retainers.
Operating Temperature	-40°C to 85°C (at wedge lock edge) 400W
Stability	All outputs 0.1% for 8 hrs. after 30 minute warm-up.
Humidity	Up to 95% non-condensing.
Storage Temperature	-55°C to 85°C.
Connectors	VITA 62 compliant
Size	3U x 5HP (1") x 160mm Weight: 1.75 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.