VPX-700-P

700 Watts **Conduction Cooled**

OpenVPX VITA 62 Compliant



KEY FEATURES:

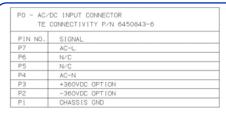
- 700 Watts in a 6U x 5 HP (1") x 160mm Modular Design
- Wide Range AC Input with Active Power Factor Correction
- · Meets MIL-STD-1399, Section 300A (Type 1) for the Voltage Range Specified
- VITA 62 Outputs; +12V/30A, +5V/40A, Aux_+3.3V/40A, Aux_+12V/1A, Aux_-12V/1A
- No Minimum Load Required
- Custom Input/Output Configurations Available
- N+1 Redundant with Internal Oring FET's/Diodes
- VITA 62 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.



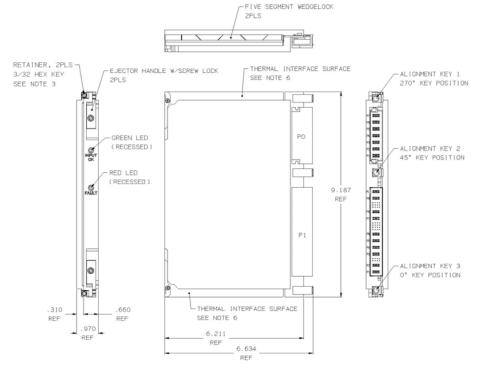




VPX-700-P



	CONNECTIVITY P/	1 0400049	-0
PIN NO.	SIGNAL	PIN NO.	SIGNAL
P10	+12V/30A	D5	SDA
P9	+12V/30A	A4	GA3*
A9	+12V_SENSE	B4	GA2*
B9	+12V_SENSE	C4	GA1*
C9	+5V SENSE	D4	GAO*
D9	N/C	A3	N/C
A8	+12V SENSE RTN	B3	+12V AUX/1A
B8	+12V_SENSE_RTN	C3	NED
C8	+5V SENSE RTN	D3	NED RTN
D8	N/C	P6	+5V/40A
A7	N/C	P5	+5V/40A
B7	N/C	P4	POWER RTN
C7	N/C	P3	POWER RTN
D7	SIGNAL_RTN	A2	VBAT
P8	POWER_RTN	B2	FAIL*
P7	POWER RTN	C2	INHIBIT*
A6	N/C	D2	ENABLE*
B6	N/C	A1	N/C
C6	-12V AUX/1A	B1	N/C
D6	SYSRESET*	C1	N/C
A5	GAP*	D1	N/C
B5	GA4*	P2	+3.3V AUX/40A
B5 C5	GA4* SCLK	P2 P1	POWER RTN



 Nominal Input Voltage
 115/230 Vac, 7/4A max.

 Frequency
 47-63 Hz , 400Hz.

Operational Input Voltage Range

100-264 VAC, 700W output, derate to 600W at 90VAC. Power factor is 0.99 typical at full load.

Meets EN 61000-3-2.

Inrush Current Less than 4 msec. 40 amperes @ 115 Vac

or 80 amperes @ 264 Vac.

Brownout Protection: Holds Regulation to 85 Vac.

Fusing 16 Ampere, 250 Vac, Internal ceramic

body fuse.

Hold up time 20msec minimum after loss of AC Input at full load

and any input

Efficiency 85% typical

Turn on time1 sec max. from power up.Line and Load $\pm 2\%$ over AC input range andRegulation0 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, 100Vdc.

Input/Output Isolation 1500Vdc from input to both chassis/outputs.

Reverse Voltage Protected against reverse voltage to supply

current rating.

Overvoltage Shutdown at 130% of nominal Vout.

Protection Recycle input power to reset.

Overtemperature Protection Unit shuts down if overheated. Recycle input.

Leakage Current 1.5mA max at 240Vac.

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 and +5V current to within $\pm 10\%$ 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 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 VITA 62 compliant. Reference SPI's VPX Signal data sheet

Addressing 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) 700W.

Stability All outputs 0.1% for 8 hrs. after 30 minute warm-up.

Humidity Up to 95% non-condensing.

Storage Temperature -55°C to 105°C.

Connectors VITA 62 compliant

Size 6U x 5HP (1") x 160mm **Weight:** 3.5 lbs.

EMC Designed to meet Mil-Std-461F with SPI's external filter,

Top Assembly 26380, or equivalent.

Common Options Conformal coating with Paylene & special output

configurations. Consult factory for more details on a tailored solution which meets your requirements.

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