

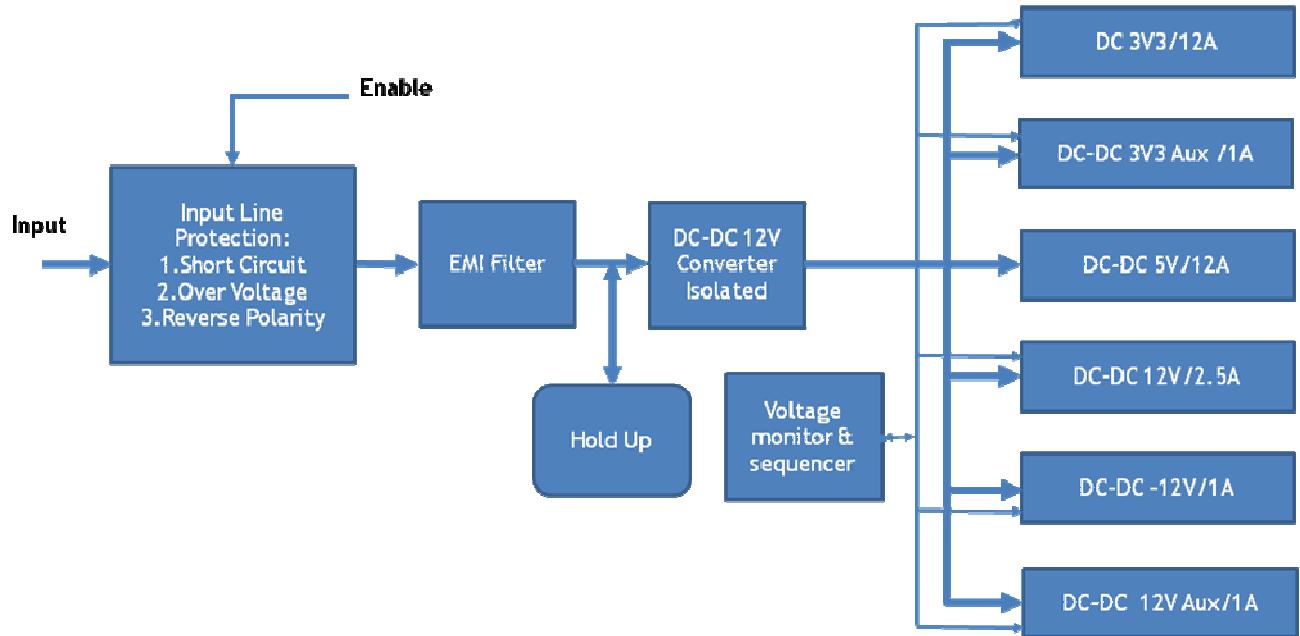
VPX SERIES

3U

Conduction Cooled
Military Power Supply

The VPX ATR Series of high-power, multiple-output power supplies addresses the needs of today's military for plug-in applications. Our multiple output power supplies are proven COTS products for the most demanding military airborne VPX system applications. Operating on 28VDC aircraft power, these units can provide up to 6 outputs, generate up to 160 watts, and comply with MIL-STD-461F EMI requirements. Features include independently regulated, isolated outputs, with an internal LED status indicator.

- Input 28VDC
- Multiple outputs/ configurations up to 160 watts
- Low Output ripple
- Compliant MIL STD 704-8
- Rugged - MIL-STD-810F vibration, shock, humidity
- MIL-STD-461F compliant
- Operating Temperatures
 - Conduction Models: up to +85°C Card Edge Temperature



Block Diagram

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DATASHEET



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ELECTRICAL INPUT

Input Voltage Range	Supply: 28 V DC (min: 16 V, Max: 32 V)
Reverse Polarity Protection (DC Inputs)	Yes
Efficiency	Min 80% @ Full Load
Output Voltages	3.3 V DC, 5 V DC, 12 V DC,

ELECTRICAL OUTPUT

Output Currents	+3.3V DC: 12A
	+5V DC: 12A
	+12V DC: 2.5A
	+3.3V DC (AUX): 1A
	12VDC (AUX): 1A
	-12VDC (AUX): 1A
Ripple & Noise	3.3V DC < 50mV
	5V DC < 50 mV
	12V DC < 120 mV
Line Regulation	3.3V DC < 50mV
	5V DC < 1%
	12V DC < 1%
Load Regulation	3.3V DC < 1%
	5V DC < 1%
	12V DC < 1%
Max Total Output Power	160W
Holdup	50msec (min.) for Nominal 100W
	Voltage range of 22V-29V DC as per MIL-HDBK-704, Method LDC201.

MECHANICAL

Mechanical Dimensions	Standard 3U X160MM VPX board with VPX power connectors (single slot 25mm)
Cooling	Conduction
Weight	<1000 grams
Maximum operating Ambient Temperature	85 °C on Card Edge

COMPLIANCE

Operating Temperature	-40°C to +71°C With conduction cooling
Storage Temperature	-55°C to +105°C
Altitude	Up to 70,000 feet
Humidity	0% to 95% non-condensing
Vibration	Vibration: 0.1 g /Hz (maximum), 20 to 2000 H.
Shock	40 g, 11 ms sawtooth.
EMI	As per MIL-STD-461E/F including CE07, CS06 of MIL -STD- 461C
Isolation	Input-Case > 200 VDC Input-Output > 500 VDC Output-Case > 200VDC

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Ordering Information
Part Number 3020-0049



Specifications subject to change without notice.
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