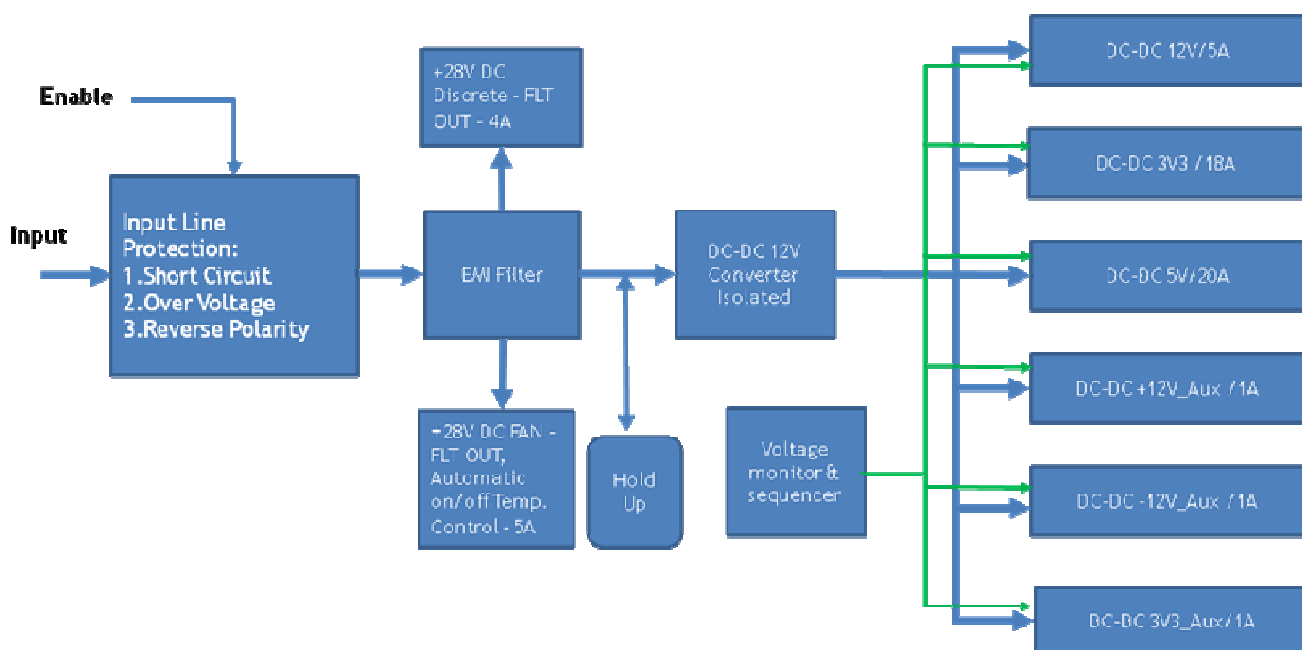


VPX SERIES

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 250 watts, and comply with MIL-STD-461E EMI requirements. Features include independently regulated, isolated outputs, with each output having an internal LED status indicator.

Double-Slot 3U Conduction Cooled Military Power Supply

- Input 28VDC
- Multiple outputs/ configurations up to 250 watts
- Low Output ripple
- Compliant MIL STD 704D & F
- Rugged – MIL-STD-810 vibration, shock, humidity
- MIL-STD-461C & E compliant
- Operating Temperatures
 - Conduction Models: –up to +85°C Card Edge Temperature



Block Diagram

Double-Slot 3U Conduction Cooled Military Power Supply

DATASHEET



VPX SERIES

ELECTRICAL INPUT

Input Voltage Range	Supply: 28 V DC (Min: 12 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, 28V

ELECTRICAL OUTPUT

Output Currents	+3.3V DC: 18A
	+5V DC: 20A
	+12V DC: 5A
	+3.3V DC (AUX): 1A
	+12VDC (AUX): 1A
	-12VDC (AUX): 1A
Ripple	28V Filtered 4A
	28V Filtered 5A
	3.3V DC < 1%
	5V DC < 1%
Line Regulation	12V DC < 1%
	3.3V DC < 1%
	5V DC < 1%
Load Regulation	12V DC < 1%
	3.3V DC < 1%
	5V DC < 1%
Max Total Output Power	250W
Holdup	50msec (min.) for Nominal 250W
	Voltage range of 22V-29V DC.

MECHANICAL

Mechanical Dimensions	Standard 3U X160MM x8HP VPX board with VPX power connectors
Cooling	Conduction
Weight	1.0Kg
Maximum operating Ambient Temperature	85 °C on Card Edge

COMPLIANCE

Operating Temperature	-40 °C to +85°C Card Edge With conduction cooling
Storage Temperature	-55°C to +105°C
Altitude	Up to 70,000 feet
Humidity	MIL-STD-810F, Meth 507 (5cycles/48 hrs, 60°C, 95% RH)
Vibration	According to MIL-STD-810F, Meth 514.5 0.1g2/Hz PSD for 60mins / axis.
Shock	MIL-STD-810F, Meth 516.5, Procedure-I Shock pulse: Half sine: 40g Pulse durations: 11ms, Total 18 shocks.
EMI	MIL-STD-461E; CE 101, CE 102, CE07 CS 101, CS 114, CS 115, CS 116, CS 06 RE 101, RE 102, RS 101, RS 103
Isolation	Input-Case @ 200 VDC Input-Output @ 500 VDC Output-Case @ 200 VDC