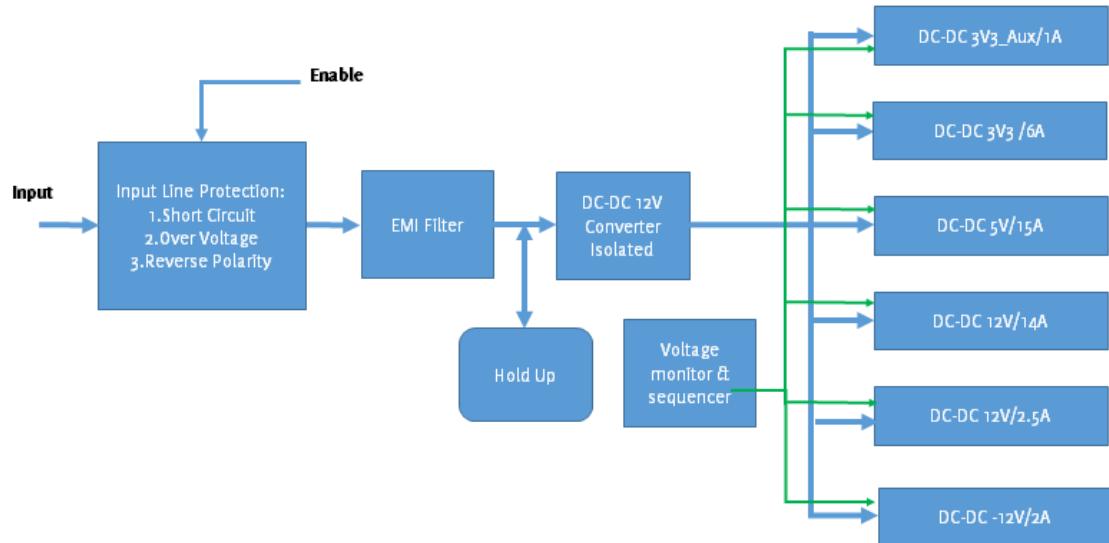


## VPX SERIES

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 320 watts, and comply with MIL-STD-461F EMI requirements. Features include independently regulated, isolated outputs, with an internal LED status indicator.

### 3U Conduction Cooled Military Power Supply

- Input 28VDC
- Multiple outputs/ configurations up to 320 watts
- Low Output ripple
- Compliant MIL STD 704F
- Rugged - MIL-STD-810 vibration, shock, humidity
- MIL-STD-461F compliant
- Operating Temperatures
  - Conduction Models: up to +75°C Card Edge Temperature



Block Diagram

**3U**  
**Conduction Cooled**  
**Military Power Supply**

**DATASHEET**



**VPX SERIES**

**ELECTRICAL INPUT**

Input Voltage Range	Supply: 28 V DC ( min: 16 V, Max: 48 V)
Reverse Polarity Protection (DC Inputs)	Yes
Efficiency	Max 85% @ Full Load
Output Voltages	3.3 V DC, 5 V DC, 12 V DC,

**ELECTRICAL OUPUT**

Output Currents	+3.3V DC: 6A
	+5V DC: 15A
	+12V DC: 14A
	+3.3V DC (AUX): 1A
	+12VDC (AUX): 2.5A
	-12VDC (AUX): 2A
Ripple	3.3V DC < 30mV
	5V DC < 50 mV
	12V DC < 120 mV
	12v_Aux < 120 mV
	-12V DC < 120 mV
Line Regulation	3.3V DC < 1%
	5V DC < 1%
	12V DC < 1%
	3.3V DC < 1%
Load Regulation	5V DC < 1%
	12V DC < 1%
Max Total Output Power	320W
	50msec (min.) for Nominal 320W
Holdup	Voltage range of 22V-29V DC.

**MECHANICAL**

Mechanical Dimensions	Standard 3U X160MMx25MM VPX board with VPX power connectors
Cooling	Conduction
Weight	0.8 kg
Maximum operating Ambient Temperature	75 °C on Card Edge

**COMPLIANCE**

Operating Temperature	-40°C to +71°C With conduction cooling
Storage Temperature	-40°C to +85°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 0.04g2/Hz PSD for 60mins / axis.
Shock	MIL-STD-810F, Meth 516.5, Procedure-I Shock pulse: Half sine: 15g Pulse durations: 11ms, Total 18 shocks.
EMI	MIL-STD-461F; CE101,CE102, CS101,CS109,CS114,CS115,CS116, RE101,RE102, RS101, RS103,RS105
Isolation	Input-Case @ 500 VDC Input-Output@ 500 VDC Output-Case @ 500VDC

**TACTICAL SYSTEMS PVT LTD**  
#12, 2ND FLOOR, 13TH MAIN,  
VASANTH NAGAR,  
BANGALORE 560 052  
Phone 91 80 4112 0887

**Ordering Information**  
**Part Number 3020-0050**



Specifications subject to change without notice.  
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