

Military VPX Power Supply

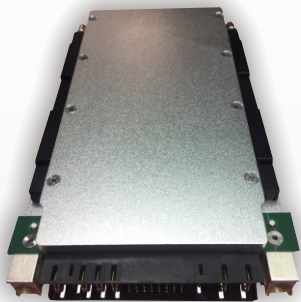
The VPX series are compliant with VITA 62.0 and military standard GJB181-86, GJB151A. The power supply mainly consists of EMI filter circuit, inrush limit circuit, DC-DC converter, output filter and controlling circuit. The VPX delivers up to 1000W and with flexible custom design output.

Application: Airborne, Missile-borne, Vehicle, Radar, Weapons, Communication and Controlling System.

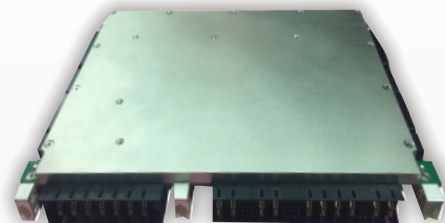
Special Features:

- 1、 Input range: DC28V (18V-36V)、 AC115V $\pm$ 20% 400Hz、 AC220V $\pm$ 20%50Hz、 AC220V(85V-264V) 50Hz, meet almost all input voltage standards, provide models of mutiple input
- 2、 Output voltage: +3.3V,+5.0V,+12V, $\pm$ 12V etc, provide several tens of custom design solutions
- 3、 Output: Output power up to 1000W, provide custom design solutions
- 4、 Output control TTL level, failure alarm, voltage monitoring, redundancy, current share.
- 5、 Input under voltage protection, output over current/short protection and over temperature protection
- 6、 High efficiency up to 92%
- 7、 Designed to meet VITA 62.0
- 8、 I²C bus protocol, JTAG (USB) connector, monitoring output voltage, output current and internal temperature
- 9、 High reliability, high performance on EMI
- 10、 Size: Standard 3U, 6U. Provide custom design products

Standard 3U Package Size
(mm: 168x100x24)



Standard 6U Package Size
(mm: 233x168x24)



Product Specification(25°C Ambient Temperature)

Input Voltage	DC28V(18V-36V) AC115V±20% 400Hz AC220V±20% 50Hz AC220V(85V-264V)50Hz	Operating Temperature	H Grade	-40°C~+85°C
			M Grade	-55°C~+85°C
Output Voltage Accuracy	≤1%	Storage Temperature		-55°C~+105°C
Line Regulation	≤0.5%	Isolation Resistance	Input/Case	100MΩ(DC1000V)
Load Regulation	≤2%		Input/Output	100MΩ(DC1000V)
Efficiency	≥90%		Output/Case	100MΩ(DC500V)
		Connector	Standard connector or custom define	

Product Examples

Model Number	Input Voltage	Output	Voltage Ripple	Efficiency	Size(mm)
JTVPX-6UDC28H1000	18-36Vdc	12V/80A,5V/30A,3.3V/15A ±12V/1A	Vp-p≤80mv	≥90%	233*168*24.6
JTVPX-3UDC28H500	18-36Vdc	12V/40A,5V/25A,3.3V/25A 3.3V/6A,±12V/1A	Vp-p≤80mv	≥90%	168*100*24.6
JTVPX-3UAC115H300	AC115/400Hz	12V/25A,5V/25A,3.3V/25A	Vp-p≤80mv	≥87%	168*100*24.6
JTVPX-6UAC220H500	AC220/50Hz	12V/17A,5V/35A,3.3V/15A 3.3V/25A,±12V/3A	Vp-p≤80mv	≥86%	233*168*24.6

Ordering Information

JTVPX-	XX	XX	X	X	(X)	(XXXX)
VPX Series	Size(mm) 3U: 168x100x24.6 6U: 233x168x24.6	Input DC:DC AC:AC AD:AC&DC	Operating Temperature H:-40°C~85°C M:-55°C~85°C	Output Power 500 : 500W 1000:1000W	# of Output T : 3 F : 4 X : 5	Main Output Voltage