6U VPX AVIONICS POWER SUPPLY

VPX-6U-115-28-1000-A01

VPX-6U-115-28-1000-A01 is a 1000 W 1" pitch AC/DC power supply for VPX 6U chassis. It is compatible with VPX standards and supports all VITA62.0 signals and features.

- 6U VPX form factor
- -40/+85 °C operating temperature range
- Standard VITA62.0 connectors
- Supports VITA46.11 Health Management protocol
- 3 Phase 115 VAC or 270 VDC input voltage
- EMI filter included
- Continuous built-in testing
- 28 VDC and 3.3 VDC outputs
- Status LED
- Optional RS485 interface
- User configuration settings are stored in internal memory
- Soft start with in-rush control

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The VPX-6U-115-28-1000-A01 is a robust 1000 W AC/DC power supply designed for VITA 46.0 and VITA 65 systems, conforming to VPX and VITA62.0 standards. It operates with a 3-phase 115 VAC or 270 VDC input voltage, delivering outputs of 28 VDC and 3.3 VDC. This power supply is conduction-cooled via the card edge and includes over-voltage, over-current, and over-temperature protections, ensuring reliable performance under varying conditions. It also supports current sharing for parallel operation, enabling the use of multiple units to increase total output current. Additional features include an operating temperature range of -40 to +85°C, EMI filtering, built-in continuous testing and optional RS485 interface.

The electrical specifications highlight its capability to handle a maximum input voltage of 140 VAC or 330 VDC, with continuous output currents up to 40 A. The VPX-6U-115-28-1000-A01 is designed to meet harshest environmental standards, including MIL-STD-810G for vibration, shock, and temperature extremes, as well as MIL-STD-461F for EMI and EMC. Mechanically, it measures 233.4 x 168.5 x 24.7 mm and weighs 1.6 kg. The unit includes standard VITA62.0 connectors and supports the VITA46.11 Health Management protocol, with user configuration settings are stored in internal memory for ease of management and operation.