6U VXS 6021 Full Size

6U VXS 6021 Full Size Bulletpoints

- **Mechanics: 19” × 8 U × 480 mm chassis built from rugged steel-aluminium, fully IEEE 1101.10 compliant with advanced EMC/ESD shielding**
- **Slots / Backplane: Monolithic 21-slot 6U VXS backplane in dual-star topology (18 payload, 2 switch card slots, 1 legacy VME64x slot)**
- **Power Supply: UEP 6021 modular “Cavity-VHF” switching PSU delivering up to 6 kW DC (3 kW via 3U, 6 kW via 6U module), ultra-low noise (<3 mVpp on <12 V rails; <10 mVpp on other rails)**
- **Cooling & Monitoring: UEL 6020 EX fan tray with 3 individually controlled long-life DC (or HRPM) fans (MTBF > 65 000 h), front-mounted, with LED display and Ethernet/RS232/CAN-bus monitoringCooling: Fan tray with 6 adjustable DC fans, bottom-to-top airflow, optional filter**
- **Protection: Built-in overvoltage/overcurrent/overtemperature protection via microprocessor-controlled PSU**

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Technical Information

Electrical Parameters:	
Inputs	
Mains input range	94–260 VAC autoranging with PFC
Input current	Depends on load and PSU configuration (up to 6 kW DC output)
Inrush current	Soft-start limited by UEP 6021 PSU system
Input fuse	Integrated in PSU module
Outputs	
Number of channels	Up to 8 floating DC outputs (depending on PSU configuration)
Output Voltages	Configurable; typical rails +5 V (up to 230 A), ±12 V, +3.3 V, +48 V, others available
Output Power	Up to 6 kW DC with 6U PSU module (or 3 kW with 3U option)
Overvoltage protection	Yes, microprocessor-controlled
Overcurrent protection	Yes, microprocessor-controlled
Ripple and Noise	<3 mVpp on ≤12 V rails, <10 mVpp on other rails
Efficiency	High efficiency, typically 75–85% with VHF switching PSU
Monitoring & Control	
Voltage	Fully monitored locally and remotely (Ethernet/RS232/CAN-bus)
Current	Fully monitored locally and remotely (Ethernet/RS232/CAN-bus)
Status LED	Alphanumeric LED display plus multiple status LEDs on fan tray
Isolation	
Input - Output	galvanically isolated
Input - Chassis	galvanically isolated
Output - Chassis	galvanically isolated
Environment and Cooling:	
Operation temperature:	(0 – 50 °C without derating
Cooling media	Forced air, bottom-to-top airflow with removable UEL 6020 fan tray (3 long-life DC fans, MTBF >65 000 h)
Mechanical Parameters	
Dimensions	19” × 8U × 480 mm (chassis)
Weight	Approx. 14 kg (bin), +8 kg (fan tray), +15–29 kg (depending on PSU option 3U/6U)
Input Connector	AC input at PSU module
Output connector	Rear backplane connectors (VXS J0/J1 plus legacy VME64x lines)
Mounting	Standard 19” rackmount, IEEE 1101.10 compliant
Other	
Communication Protocols	Ethernet, RS232, CAN-bus for full remote monitoring and control
Reliability	Rugged steel-aluminium construction, modular design; fan MTBF >65 000 h; hot-swappable fan tray
Warranty / Maintencance	tandard WIENER warranty; modular PSU and fan tray allow easy service and replacement

Electrical, Environmental & Compliance Data

Main Power

- **Output Voltages / Currents: Flexible configurations, e.g. +5 V up to 230 A, ±12 V, +3.3 V, +48 V and others depending on PSU setup**
- **Output Power: Up to 6 kW DC with 6U PSU module (or 3 kW with 3U option)**
- **Overvoltage / Overcurrent Protection: Integrated, microprocessor-controlled protection with programmable limits and crow-bar function**
- **Ripple & Noise: Ultra-low noise: <3 mVpp on ≤12 V rails, <10 mVpp on other rails**
- **Efficiency: High efficiency, typically 75–85% using Cavity-VHF switching technology**

Auxiliary Power

- **None – all primary rails supplied via UEP 6021 PSU modules**

Compliance

- **Safety: CE EN 60950, ISO 380, VDE 0805, UL 1950, C22.2.950**
- **CE conformity: Yes, autoranging mains input with active PFC**

Environmental

- **Operating temperature: 0 – 50 °C without derating**
- **Cooling: High-performance UEL 6020 fan tray with 3 long-life DC fans (adjustable 1 200–6 100 RPM, MTBF >65 000 h), airflow bottom-to-top, optional filter**

Communication / Monitoring

- **Local: Alphanumeric LED display plus multiple status LEDs on fan tray for PSU and fan diagnostics**
- **Remote: Full crate monitoring and control via Ethernet, RS232, and CAN-bus**

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