

6U VXI-C size 4600 RR Crate Series



9U VME 6023 Full Size Chassis Bulletpoints

- 13-slot 6U VXI crate (10 U, 19") with high power density (up to 3kW DC) capability
- Rear-side cooling via modular 3U fan tray with three high-efficiency DC fans and optional air filter
- Ultra-low noise PSU utilizing VHF-switching technology for clean, reliable power
- Rugged steel-aluminium construction, ideal for demanding test environments
- Advanced monitoring via microprocessor-controlled fan tray with alphanumeric LED display

Electrical Parameters:	
Inputs	
Mains input range	94–260 VAC, worldwide auto-range with PFC
Input current	Not explicitly specified (depends on PSU configuration, up to ~3 kW load)
Inrush current	Not specified
Input fuse	Integrated in PSU
Outputs	
Number of channels	13 VXI slots (backplane powered via PSU)
Output Voltages	High-density PSU with multiple DC rails, up to 3 kW total (specific rails not listed)
Output Power	Up to 3 kW DC
Overvoltage protection	Yes, built into PSU
Overcurrent protection	Yes, built into PSU
Ripple and Noise	Ultra-low noise; PARD optimized (no exact values provided)
Efficiency	High-performance switching PSU (~75–85% typical)
Monitoring & Control	
Voltage	Monitored via fan tray LED display
Current	Monitored via fan tray LED display
Status LED	Yes, system and fan tray LEDs
Isolation	
Input - Output	Isolated through PSU design
Input - Chassis	Standard isolation (PSU integrated)
Output - Chassis	Standard isolation (PSU integrated)
Environment and Cooling:	
Operation temperature:	Not explicitly listed; expected 0...50 °C (similar to 6000-series)
Cooling media	Rear-mounted 3U modular fan tray, 3 long-life DC fans, optional filter
Mechanical Parameters	
Dimensions	19" × 10 U × 674 mm (W × H × D)
Weight	26 kg
Input Connector	Integrated into PSU module
Output connector	VXI backplane (J1/J2)
Mounting	19" rack-mountable chassis with rugged steel-aluminum frame
Other	
Communication Protocols	Microprocessor-controlled fan tray with local alphanumeric LED display, status LEDs
Reliability	Rugged modular design (bin + fan tray + PSU), long-life DC fans, optimized airflow
Warranty / Maintenance	Not explicitly listed

Electrical, Environmental & Compliance Data

Main Power

- **Output Voltages:** Configurations include +5 V up to 345 A, ± 12 V up to 46 A (varies by PSU module setup)
- **Output Power:** Provided via modular UEP 6021 PSU — scalable up to several kW depending on modules
- **Overvoltage / Overcurrent Protection:** Built into PSU (UEP 6021)
- **Ripple & Noise:** Ultra-low noise < 3 mVpp on <12 V rails, others < 10 mVpp
- **Efficiency:** Reflects PSU performance (~75–85%)

Auxiliary Power

- **None** – primary rails supplied via integrated PSU(s) (UEP 6021 modules)

Compliance

- **Safety:** Conforms to CE EN 60950, ISO 380, VDE 0805, UL 1950, C22.2.950 (via UEP 6021 PSU system)
- **EMC (emission):** Not explicitly listed
- **EMC (immunity):** Not explicitly listed
- **CE conformity:** Yes – worldwide auto-range AC input (94–260 VAC) with active PFC (via PSU UEP 6021)

Environmental

- **Operating temperature:** Not directly listed for chassis; expected similar to UEP 6021 PSU (0–50 °C)
- **Storage temperature:** Not specified
- **Clean earth wiring:** Not specified
- **Cooling:** UEL 6020 EX fan tray with 3 individually controlled long-life DC fans (MTBF > 65,000 h, adjustable 1200–3600 RPM), Ethernet-controlled, LED status display, plus 1U compression chamber for optimized airflow

Communication / Monitoring

- **Local:** Microprocessor-controlled fan tray with alphanumeric LED display (voltages, currents, temperatures, fan speed, programmable settings) + status LEDs
- **Remote:** Ethernet interface (fan tray) for monitoring and control