

9U VME430 6021



9U VME430 6021 Bulletpoints

- 9U × 400 mm board height, 19" × 11U × 720 mm chassis, rugged steel/aluminum design with 5 mm sidewalls
- Full-size VME/VME430 crate, supports 9U × 400 mm boards, Vario option for mixed 6U/9U cages
- UEP 6021, modular, up to 3 kW (3U) or 6 kW (6U) output, low-noise VHF switching
- typ. < 3 mVpp (< 12 V), < 10 mVpp on higher rails, < 2 mVrms
- Ethernet, RS-232, CAN-Bus, Web-interface for monitoring & control
- UEL 6020 EX fan tray, 4–9 high-reliability fans, bottom-to-top airflow, hot-swappable

Electrical Parameters:	
Inputs	
Mains input range	94 – 260 VAC, automatic worldwide range with power factor correction
Input current	depends on PSU module
Inrush current	Limited (cold start)
Input fuse	External / module dependent
Outputs	
Number of channels	Up to 8 independent DC outputs (depending on PSU configuration)
Output Voltages	2 – 7 V, 7 – 16 V, 12 – 30 V, 30 – 60 V (module dependent, floating)
Output Power	Up to 3 kW (3U PSU), up to 6 kW (6U PSU)
Overvoltage protection	Programmable, crow-bar and shutdown on > 125 % nominal
Overcurrent protection	Programmable current limits, trip-off on overload
Ripple and Noise	< 3 mVpp (< 12 V), < 10 mVpp (> 12 V), typ. < 15 mVpp (20 MHz), < 2 mVrms (30 MHz)
Efficiency	Not explicitly specified (typ. 75 – 85 %)
Monitoring & Control	
Voltage	Programmable, accuracy < 0.1 % static
Current	Adjustable current limits
Status LED	Alphanumeric fan/PSU/bin status display; LEDs for system status
Isolation	
Input - Output	Compliant with EN60950 / UL1950 / CSA standards
Input - Chassis	As above
Output - Chassis	Floating outputs, configurable ground
Environment and Cooling:	
Operation temperature:	0 °C to +50 °C (typical), storage –30 °C to +85 °C
Cooling media	Forced air via UEL 6020 EX fan tray, bottom-to-top airflow, hot-swap fans
Mechanical Parameters	
Dimensions	19" × 11U × 720 mm (bin), supports 9U × 400 mm boards
Weight	Approx. 16–17 kg (bin only, without PSU and fan tray)
Input Connector	Fixed cable (depending on PSU version)
Output connector	Backplane bus-bar system
Mounting	Standard 19" rackmount

Other	
Communication Protocols	Ethernet, RS-232, CAN-Bus, Web-interface
Reliability	Fan MTBF > 60,000 h (per fan at 40 °C)
Warranty / Maintenance	Maintenance Modular design: bin, fan tray, PSU separately replaceable

Electrical, Environmental & Compliance Data

Main Power

- Output Voltages / Currents: Module dependent – 2–7 V, 7–16 V, 12–30 V, 30–60 V; up to 100 A per channel; total output power up to 3 kW (3U PSU) or 6 kW (6U PSU)
- Regulation (load change 10–100 %): typ. < 0.1 % static, < 0.7 % dynamic
- Ripple & Noise (full load): < 3 mVpp (< 12 V outputs), < 10 mVpp (> 12 V outputs), typ. < 15 mVpp (20 MHz), < 2 mVrms (30 MHz)
- Recovery time (10–100 % load): typ. < 0.2 ms
- Output impedance (static/dynamic @ 100 kHz): typ. 1.5 mΩ / 0.5 Ω

Auxiliary Power

- All primary outputs available on main connector
- Remote sense lines for accurate voltage regulation

Compliance

- CE compliant (EN60950, UL1950, CSA C22.2, VDE0805)
- Designed to meet ISO 380 and EMC requirements
- FCC compliance depending on configuration

Environmental

- Operating temperature: 0 °C to +50 °C (typical, without derating)
- Storage temperature: –30 °C to +85 °C
- Cooling: Forced air via hot-swap fan tray (UEL 6020 EX), bottom-to-top airflow
- Construction: Rugged 19" rigid steel/aluminum chassis, 5 mm sidewalls

Communication / Monitoring

- Integrated monitoring via Ethernet, RS-232, CAN-Bus and Web-interface
- Programmable voltage and current limits
- Remote on/off control
- Fan tray with alphanumeric display for temperature, fan speed, and system status

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