9U VME430 6023

9U VME430 6023 Bulletpoints

- Mechanics: 9U × 400 mm, 19” × 11U × 720 mm, rugged steel/aluminum chassis with 5 mm sidewalls
- Slots: Full-size VME/VME430 crate, supports up to 21 slots, Vario option for mixed 6U/9U cages
- Power Supply: Modular UEP 6023 PSU, up to 3 kW (3U) or 6 kW (6U), floating DC outputs
- Ripple: typ. < 3 mVpp (< 12 V), < 10 mVpp other rails, < 2 mVrms
- Interfaces: Ethernet, RS-232, CAN-Bus, integrated web interface & SNMP
- Cooling: UEL 6020 EX fan tray with 4–9 high-reliability DC fans, hot-swappable, bottom-to-top airflow

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Electrical Parameters:	
Inputs	
Mains input range	94 – 260 VAC, automatic worldwide range with PFC
Input current	Depends on PSU module (3U ~16 A, 6U ~32 A)
Inrush current	Limited at rated input (cold start)
Input fuse	External / module dependent
Outputs	
Number of channels	Up to 8 independent floating DC outputs (module dependent)
Output Voltages	2–7 V, 7–16 V, 12–30 V, 30–60 V (per module)
Output Power	Up to 3 kW (3U PSU) or 6 kW (6U PSU)
Overvoltage protection	Programmable, crow-bar and shutdown > 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, < 2 mVrms
Efficiency	75 – 85 % (module dependent)
Monitoring & Control	
Voltage	Programmable, accuracy < 0.1 % static
Current	Adjustable current limits
Status LED	Alphanumeric display for PSU/fan/bin data, LEDs for system status
Isolation	
Input - Output	Compliant with EN60950 / UL1950 / CSA standards
Input - Chassis	As above
Output - Chassis	Floating, configurable ground
Environment and Cooling:	
Operation temperature:	0 °C to +50 °C operating, –30 °C to +85 °C storage
Cooling media	Forced air, UEL 6020 EX fan tray, bottom-to-top airflow, hot-swappable
Mechanical Parameters	
Dimensions	19” × 11U × 720 mm
Weight	Approx. 16–18 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	Interfaces. Ethernet, RS-232, CAN-Bus, web interface, SNMP
Reliability	Fan MTBF > 60,000 h at 40 °C Electronics MTBF > 100,000 h at 40 °C (typical PSU)
Warranty / Maintencance	Modular: bin, fan tray and PSU separately replaceable

Electrical, Environmental & Compliance Data

Main Power

- **Output Voltages / Currents: Modular and expandable – floating DC outputs based on installed power modules. Common ranges: 2–7 V, 7–16 V, 12–30 V, 30–60 V. Depending on module type, currents 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 %): Static regulation typically < 0.05–0.1 % (module dependent), dynamic regulation < 100 mV / < 0.7 %.**
- **Ripple & Noise (full load): < 3 mVpp (< 12 V outputs), < 10 mVpp (> 12 V outputs), typical < 15 mVpp (0–20 MHz), < 2 mVrms (0–30 MHz).**
- **Recovery time (10–100 % load): Approx. 0.2 ms.**
- **Output impedance (static/dynamic @ 100 kHz): Typically ~1.5 mΩ / 0.5 Ω (module dependent).**

Auxiliary Power

- **All primary outputs available on the main connector.**
- **Floating outputs allow common or isolated ground configuration.**

Compliance

- **CE compliant (EN 60950, UL 1950, CSA C22.2, VDE 0805).**
- **ISO 380 and EMC conformity.**
- **Power Protect Memory (PPM) prevents use of incompatible power supplies.**

Environmental

- **Operating temperature: 0 °C to +50 °C (without derating).**
- **Storage temperature: –30 °C to +85 °C.**
- **Construction: Rugged 19” steel/aluminum chassis with 5 mm sidewalls; includes a 1U plenum above the fan tray for optimized airflow.**

Cooling & Fan Tray

- **Fan Tray UEL 6020 EX with 4, 6, or 9 individually controlled long-life DC fans.**
- **Forced bottom-to-top airflow, hot-swappable, MTBF > 60,000 h at 40 °C.**
- **Fan speed control (1,200–3,600 RPM), thermal monitoring, alphanumeric LED display for system parameters (voltages, currents, temperatures).**

Communication / Monitoring

- **Integrated Ethernet interface, RS-232 and CAN-Bus.**
- **Microprocessor-controlled monitoring of PSU, fan tray and bin.**
- **Remote access via web interface and SNMP.**

Kontron Hartmann Wiener GmbH

Linde 18
51399 Burscheid
Tel.: +021746780
info.we@kontron.com
www.kontron.com/kontron-hartmann-wiener