

6U VME430 6023



6U VME430 6023 Bulletpoints

- 9U × 19" × 480 mm, IEEE 1101.10 compliant, EMC/ESD protected
- Full-size VME crate, 6U/160 mm boards, up to 21 slots (depending on backplane)
- 3 kW (3U, 16 A) or 6 kW (6U, 32 A) with low-noise switching regulators
- typ. <3 mVpp (<12 V), <10 mVpp on higher rails, <2 mVrms
- Ethernet, CAN-Bus, SNMP, Web interface for monitoring & control
- Fan tray UEL 6020 EX, bottom-to-top airflow, hot-swappable

Electrical Parameters:	
Inputs	
Mains input range	92 – 265 VAC, automatic worldwide range
Input current	16 A (H version), 32 A (K version)
Inrush current	Limited at rated mains input (cold start)
Input fuse	External, internal optional
Outputs	
Number of channels	Up to 8 independent DC outputs (depending on modules)
Output Voltages	2 – 7 V, 7 – 16 V, 12 – 30 V, 30 – 60 V (module dependent)
Output Power	Up to 3 kW (3U power box), up to 6 kW (6U power box)
Overvoltage protection	Programmable crow-bar ≥ 125 % nominal, DC-off at deviation > 5 %
Overcurrent protection	Programmable current limits, trip-off on overload
Ripple and Noise	< 3 mVpp (< 12 V), < 10 mVpp other rails; typ. < 15 mVpp, < 2 mVrms
Efficiency	75 – 85 % (module dependent)
Monitoring & Control	
Voltage	Programmable, accuracy < 0.1 % static
Current	Adjustable current limits, sense compensation
Status LED	Green (OK), Yellow (Fan-Fail/Overheat), Red (System Fail)
Isolation	
Input - Output	EN 60950, ISO 380, VDE 0805, UL 1950, CSA C22.2
Input - Chassis	Compliant with above standards
Output - Chassis	Floating, common or separate ground configurable
Environment and Cooling:	
Operation temperature:	0 °C to +50 °C operating, –30 °C to +85 °C storage
Cooling media	Forced air, bottom-to-top, hot-swap fan tray
Mechanical Parameters	
Dimensions	Bin: 19" $\times$ 9U $\times$ 480 mm; Fan tray: 430 $\times$ 2U $\times$ 175 mm; PSU: 430 $\times$ 3U $\times$ 250 mm
Weight	Bin ~ 14 kg; Fan tray ~ 3.5 kg; PSU 13.2 – 20 kg
Input Connector	H: detachable cable (3 $\times$ 1.5 mm ²), K: fixed 2 m cable for 32 A
Output connector	Backplane bus-bar and module interface
Mounting	19" rackmount chassis
Other	
Communication Protocols	Ethernet, CAN-Bus, SNMP, integrated web interface

Reliability	Fan MTBF > 65 000 h @ 40 °C; electronics > 100 000 h @ 40 °C
Warranty / Maintenance	2 years / 5 years

Electrical, Environmental & Compliance Data

Main Power

- **Output Voltages / Currents:** Module dependent: 2–7 V, 7–16 V, 12–30 V, 30–60 V (individually up to 100 A, max. 3 kW with 3U PSU or 6 kW with 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), 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 outputs available on main connector; additional sense lines for remote regulation

Compliance

- CE (EN 60950, VDE 0805, UL 1950, CSA C22.2)
- Designed to meet ISO 380 safety and EMC requirements
- FCC compliance depending on configuration

Environmental

- **Operating temperature:** 0 °C to +50 °C (no derating); storage –30 °C to +85 °C
- **Cooling:** Forced air via hot-swap fan tray (bottom-to-top airflow)
- **Construction:** Rigid steel/aluminum 19" chassis, 5 mm side plates

Communication / Monitoring

- Integrated monitoring via Ethernet, SNMP and CAN-bus
- Programmable voltage/current limits
- Remote on/off, status LEDs, web interface

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