

6U VME430 6021



6U VME430 6021 Bulletpoints

- Power Mechanics: 6U × 160 mm, IEEE 1101.10 compliant, EMC/ESD-protected
- Slots: 21 VME/VME430 (J1/Jaux/J2)
- Power Supply: up to 1000 W, low-noise microprocessor-controlled
- Ripple: typ. < 10 mV(pp) or < 3 mV(rms)
- Interfaces: Ethernet, RS232, CAN-bus
- Cooling: front 2U fan tray, temperature-controlled

Electrical Parameters:	
Inputs	
Mains input range	92 – 265 VAC (auto-range)
Input current	approx. 16 A (H version) / up to 32 A (K version)
Inrush current	limited to rated input current (cold start)
Input fuse	external standard; internal on request
Outputs	
Number of channels	up to 8 independent floating DC outputs (modular PSU slots)
Output Voltages	+5 V, ± 12 V, -5.2 V, -2 V (optional ± 15 V)
Output Power	H version (3U PSU): 1–<3 kW K version (6U PSU): 2–<6 kW
Overvoltage protection	crowbar protection at $\approx 125\%$ of nominal
Overcurrent protection	microprocessor-controlled shutdown and restart
Ripple and Noise	<10–15 mVpp or <2 mVrms (standard), <3 mVpp for voltages <12 V (ultra-low noise option)
Efficiency	75–85%
Monitoring & Control	
Voltage	monitored per channel via microprocessor
Current	monitored per channel
Status LED	front LEDs and alphanumeric fan tray display
Isolation	
Input - Output	compliant with CE EN 60950, ISO 380, VDE 0805, UL 1950, C22.2.950
Input - Chassis	safe isolation per above standards
Output - Chassis	safe isolation per above standards
Environment and Cooling:	
Operation temperature:	0 °C to +50 °C (no derating); storage -30 °C to +85 °C
Cooling media	forced air, UEL 6020 fan tray with temperature-controlled DC fans (1200–3600 RPM)
Mechanical Parameters	
Dimensions	19" $\times$ 8U $\times$ 480 mm (+25 mm with PSU inserted)
Weight	bin ~ 13 –14 kg; PSU 9.6–30 kg depending on module configuration
Input Connector	IEC inlet (H version) / fixed 2 m power cord (K version)
Output connector	VME430 backplane (J1/Jaux/J2)
Mounting	19" rack-mountable, IEEE 1101.10 compliant
Other	
Communication Protocols	Ethernet, RS232, CAN-bus
Reliability	MTBF >65,000 h (fans at 40 °C), >100,000 h (electronics)
Warranty / Maintenance	2 years / 5 years

Electrical, Environmental & Compliance Data

Main Power

- Output Voltages / Currents: +5 V (up to 200 A), +3.3 V (up to 120 A), ±12 V (up to 40 A), ±24 V optional; other auxiliary voltages on request
- Regulation (load change 10–100%): ≤0.5% for all standard rails
- Ripple & Noise (full load): typ. <10–15 mVpp (<3 mVpp with low-noise option)
- Recovery time (10–100% load): <0.2 ms
- Output impedance (static/dynamic @ 100 kHz): <1 mΩ / <0.5 Ω

Auxiliary Power

- None – all configured primary outputs available on the main VME430 backplane connector

Compliance

- Compliant with CERN VME430 standard
- CE conformity: EN 60950, ISO 380, VDE 0805, UL 1950, C22.2.950
- EMC: EN 61000-6-3 (emissions) and EN 61000-6-2 (immunity, including ESD, surge, burst, radiated fields)

Environmental

- Operating temperature: 0 °C to +50 °C (no derating); storage –30 °C to +85 °C
- Cooling: Forced air via UEL 6020 fan tray, 3 controlled DC fans (1200–3600 RPM), MTBF >65,000 h @ 40 °C
- Humidity: up to 90% RH, non-condensing
- Chassis: 19" × 8U IEEE 1101.10 compliant rigid steel-aluminum construction

Communication / Monitoring

- Interfaces: Ethernet, RS232, CAN-bus
- Monitoring: Channel voltages and currents monitored by microprocessor
- Remote Control: Remote on/off and programmable settings via PPM (Power Protection Memory)
- Front Panel: Status LEDs and alphanumeric fan tray display

Kontron Hartmann Wiener GmbH

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