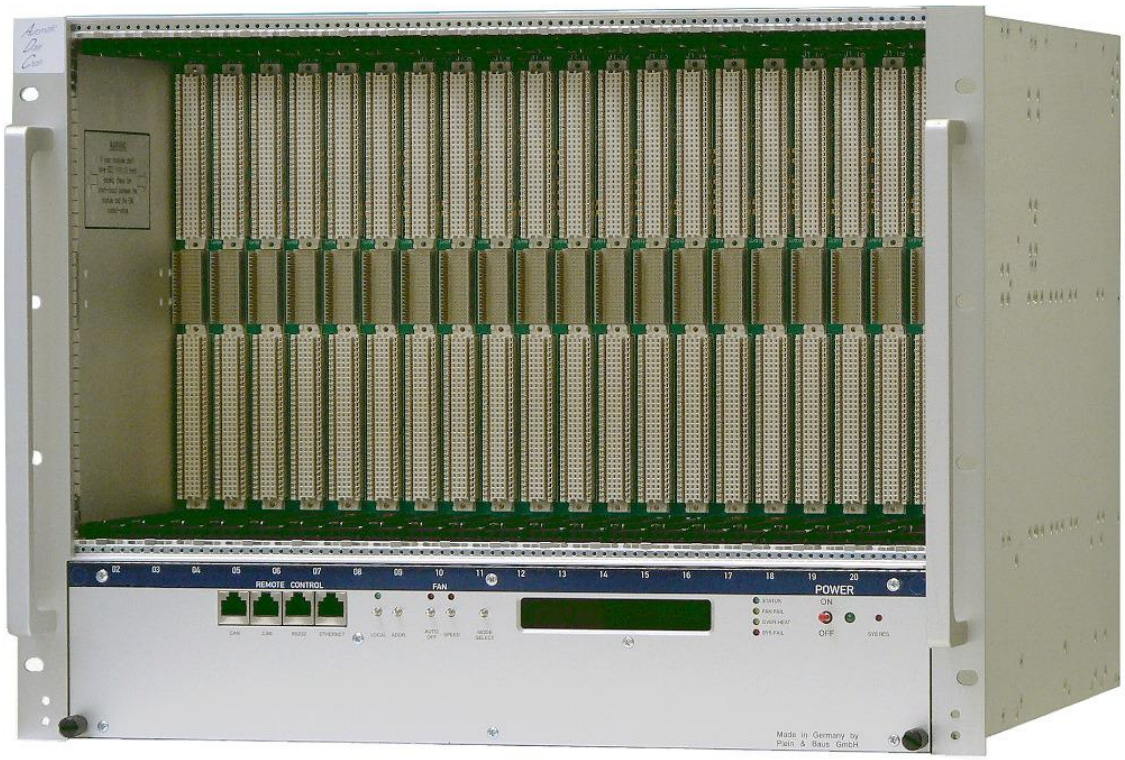
6U VME64x 6021 Full Size Chassis



6U VME64x 6021 Bulletpoints

- Power Supply: Up to 3 kW DC output (H-version 1–3 kW, K-version 2–6 kW), modular DC/DC converters (MEH/MDH/MDL)
- Output Voltages: Programmable, wide ranges (2–60 V, ± voltages possible), individually monitored
- Ripple & Noise: Ultra-low noise outputs, < 10 mVpp (< 12 V rails), < 15 mVpp (others), < 2 mVrms
- Cooling: UEL 6020 EX fan tray with 3 temperature-controlled blowers (1200–3600 RPM), bottom-to-top airflow
- Monitoring & Control: Programmable voltage/current limits, Ethernet/RS-232/CAN-bus, web server, LED status indicators
- Mechanical: 19” rack, 8U height, 480 mm depth, weight ~14 kg (bin), IEEE 1101.10 compliant

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Electrical Parameters:	
Inputs	
Mains input range	106–230 VAC ± 15 % (≈ 90–265 VAC)
Input current	16 A (H-version), 32 A (K-version)
Inrush current	Limited by soft-start, not exceeding rated input current
Input fuse	External fuse (H-version), internal on request (K-version)
Outputs	
Number of channels	Modular, depending on PSU module configuration (MEH, MDH, MDL)
Output Voltages	Module-dependent (e.g. 2–7 V, 7–16 V, 12–30 V, 30–60 V; ± ranges available)
Output Power	H-version (3U PSU): 1 kW to < 3 kW K-version (6U PSU): 2 kW to < 6 kW
Overvoltage protection	Crowbar shutdown at ~125 % of nominal
Overcurrent protection	Individually programmable current limits with shutdown
Ripple and Noise	< 10 mVpp (< 12 V rails) < 15 mVpp (others) < 2 mVrms
Efficiency	~75–85 % (depending on module configuration)
Monitoring & Control	
Voltage	Programmable, front display via fan tray, remote monitoring via Ethernet
Current	Individually programmable and monitored
Status LED	Fan tray front LEDs (green = OK, yellow = fan fail/overheat, red = failure)
Isolation	
Input - Output	In compliance with EN 60950, UL 1950, ISO 380, VDE 0805
Input - Chassis	Protective isolation
Output - Chassis	Protective isolation
Environment and Cooling:	
Operation temperature:	0 °C to +50 °C (derating above +40 °C)
Cooling media	Forced-air, bottom-to-top airflow via UEL 6020 EX fan tray with 3 controlled DC blowers (1200–3600 RPM)
Mechanical Parameters	
Dimensions	19” (483 mm) × 8U (356 mm) × 480 mm (depth +25 mm with PSU)
Weight	~14 kg (bin), PSU 9.6–20 kg (depending on configuration), fan tray ~3.5 kg
Input Connector	Detachable cable (H-version) or fixed wiring (K-version)
Output connector	PSU DC module connectors, remote sense/control via Sub-D 37-pin
Mounting	19” rack-mount, IEEE 1101.10 compliant chassis
Other	

Communication Protocols	Ethernet, RS-232, CAN-bus, integrated web server (via fan tray UEL 6020 EX)
Reliability	(MTBF)
Warranty / Maintencance	Standard WIENER warranty

Electrical, Environmental & Compliance Data

Main Power

- **Output Power: up to 3 kW DC total (UEP 6021 PSU)**
- **Output Voltages: Programmable, module-dependent ranges (typ. 2–60 V, ± voltages possible)**
- **Ripple & Noise: < 3 mVpp (< 12 V rails), < 10 mVpp (others), < 2 mVrms**
- **Regulation: Programmable with load change compensation**
- **Protection: Integrated UV/OV, overcurrent and overtemperature; programmable trip points**

Auxiliary Power

- **None – all primary outputs available on main connector**

Compliance

- **Conforms to EN 60950 / UL 1950 safety standards**
- **CE and FCC compliant (model-dependent)**

Environmental

- **Operating temperature: 0 °C to +70 °C (typical)**
- **Storage temperature: –20 °C to +80 °C**
- **Cooling: Forced-air, bottom-to-top airflow via UEL 6020 EX fan tray with 3 DC blowers (1200–3200 RPM, temperature-controlled)**
- **Integrated 1U plenum chamber for uniform airflow**

Communication / Monitoring

- **Ethernet, RS-232, CAN-bus and integrated web server (via UEL 6020 EX fan tray)**
- **Alphanumeric LED front panel display for voltages, currents, fan and PSU status**
- **Remote control and programmable monitoring functions**

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