

9U VME64x 6021



9U VME64x 6021 Bulletpoints

- **Power Supply:** High-density UEP 6021 switching PSU, up to 3 kW (3U) or 6 kW (6U), modular DC/DC converters, ultra-low noise (< 3 mVpp)
- **Output Voltages:** Programmable floating DC outputs (2–60 V incl. \pm rails), individually monitored with protective shutdown
- **Cooling:** UEL 6020 EX Fan Tray with 4/6/9 temperature-controlled DC fans, bottom-to-top airflow, MTBF > 60,000 h
- **Enclosure:** Rugged 19" rack-mount chassis, 11U height, 720 mm depth, optional rear transition cage
- **Monitoring & Control:** Ethernet/RS-232/CAN-bus, integrated web server, LED/alphanumeric diagnostics for voltages, currents, temps
- **Safety & Isolation:** Fully isolated DC distribution (EN 60950 / UL 1950), no AC wiring in the bin, high EMI/ESD protection

Technical Information

Electrical Parameters:	
Inputs	
Mains input range	94–260 VAC auto-ranging with power-factor correction
Input current	Depends on PSU configuration (3U or 6U high-power UEP 6021, up to 6 kW output)
Inrush current	Limited by soft-start circuitry in the PSU
Input fuse	Not specified; PSU internally protected against short circuit and overload
Outputs	
Number of channels	Modular – depends on installed DC/DC converter modules in UEP 6021
Output Voltages	Programmable floating DC outputs (typ. ranges 2–60 V, including ± rails)
Output Power	Up to 3 kW (3U PSU) or up to 6 kW (6U PSU)
Overvoltage protection	Programmable UV/OV/OC/OT limits; crowbar discharge on shutdown
Overcurrent protection	Programmable current limits with protective shutdown
Ripple and Noise	Ultra-low noise: < 3 mVpp (< 12 V rails), < 10 mVpp (other rails), < 2 mVrms
Efficiency	Typically 75–85 % depending on configuration
Monitoring & Control	
Voltage	Programmable via PSU; displayed on Fan Tray front panel and remotely via Ethernet
Current	Individually monitored and programmable
Status LED	Alphanumeric LED display (voltages, currents, power, temperatures, setup data)
Isolation	
Input - Output	Isolated DC lines, compliant with EN 60950 / UL 1950
Input - Chassis	Protective isolation
Output - Chassis	Protective isolation
Environment and Cooling:	
Operation temperature:	Typically 0 °C to +50 °C (similar to 6U version)
Cooling media	Bottom-to-top forced-air cooling via UEL 6020 EX Fan Tray with 4/6/9 individually controlled DC fans (1200–3600 RPM, MTBF > 60,000 h)
Mechanical Parameters	
Dimensions	19" (482 mm) × 11U (489 mm) × 720 mm (W × H × D)
Weight	Approx. 16–17 kg (bin only); PSU 9.6–20 kg depending on configuration; Fan Tray ~6.8 kg
Input Connector	AC input via PSU rear panel
Output connector	DC outputs via PSU modules; remote sense/control via Sub-D interface (optional)
Mounting	19" rack-mount, IEEE 1101.10 compliant steel-aluminum chassis, optional rear transition cage
Other	
Communication Protocols	Ethernet, RS-232, CAN-bus, integrated web server (via UEL 6020 EX Fan Tray)

Reliability	Fan Tray MTBF > 60,000 h at 40 °C; PSU high MTBF with VHF switching design
Warranty / Maintenance	Standard WIENER warranty, details on request

Electrical, Environmental & Compliance Data

Main Power

- **Output Power:** up to 6 kW DC total (UEP 6021 PSU, 3U up to 3 kW / 6U up to 6 kW)
- **Output Voltages:** Programmable floating DC outputs, module-dependent (typ. 2–60 V, incl. ± rails)
- **Ripple & Noise:** < 3 mVpp (< 12 V rails), < 10 mVpp (other rails), < 2 mVrms
- **Regulation:** Programmable with load change compensation
- **Protection:** Integrated UV/OV, overcurrent and overtemperature; programmable trip points

Auxiliary Power

- **None** – all outputs available via PSU connectors

Compliance

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

Environmental

- **Operating temperature:** 0 °C to +50 °C (typical, derating above +40 °C)
- **Storage temperature:** –20 °C to +80 °C
- **Cooling:** Forced-air, bottom-to-top airflow via UEL 6020 EX fan tray with 4/6/9 DC blowers (1200–3600 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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