

6U VME 6023 Full Size Chassis



6U VME 6023 Bulletpoints

- Output Voltages / Currents: +6 V 5 A, -6 V 5 A, +12 V 3 A, -12 V 3 A, +24 V 1.5 A, -24 V 1.5 A, 115 VAC 0.1 A
- Regulation: 6 V < 0.2 %, 12/24 V < 0.1 % (load change 10–100 %)
- Ripple & Noise: ± 6 V < 3 mVpp, ± 12 V < 5 mVpp, ± 24 V < 10 mVpp (at full load)
- Recovery Time: < 0.15 ms (10–100 % load change)
- Operating Temperature: 0 °C to +50 °C (derating above +40 °C by 2 %/°C, max. +60 °C)
- Compliance: NIM standard (AEC TID20893), CE Class B, FCC Class B (model-dependent)

Electrical Parameters:	
Inputs	
Mains input range	94 V–260 V AC, worldwide auto-ranging, with built-in power factor correction
Input current	Depends on PSU configuration (up to 3 kW load)
Inrush current	Limited by soft-start (not exceeding nominal input current)
Input fuse	Integrated in PSU module (UEP 6021), external fusing recommended
Outputs	
Number of channels	Modular (depending on UEP 6021 PSU configuration)
Output Voltages	Programmable; module-dependent ranges (2–60 V typical, ± voltages possible)
Output Power	Up to 3 kW DC total
Overvoltage protection	Crowbar shutdown at ~125 % of nominal
Overcurrent protection	Individually programmable current limits with shutdown
Ripple and Noise	< 3 mVpp (< 12 V rails), < 10 mVpp (others), < 2 mVrms
Efficiency	75% ... 85%, depends on used modules
Monitoring & Control	
Voltage	Programmable, remote monitoring via Ethernet/web interface
Current	Individually monitored and programmable
Status LED	Front panel LEDs on Fan Tray (green = OK, yellow = warning, red = failure)
Isolation	
Input - Output	In compliance with EN 60950 / UL 1950
Input - Chassis	Standard protective isolation
Output - Chassis	Standard protective isolation
Environment and Cooling:	
Operation temperature:	0 ... +70 °C (typical operating range)
Cooling media	Forced air, bottom-to-top airflow via UEL 6020 EX fan tray with 3 speed-controlled DC blowers
Mechanical Parameters	
Dimensions	19" (482 mm) × 9U (400 mm) × 480 mm (W × H × D)
Weight	~14 kg (bin), Fan Tray ~3.5 kg, PSU 9.6–20 kg depending on configuration
Input Connector	Detachable cable (H-version) or fixed wired (K-version PSU option)
Output connector	DC outputs via PSU modules; remote sense/control via Sub-D 37-pin connector
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	Fan Tray MTBF > 65 000 h at 40 °C; PSU modules high MTBF due to modular VHF switching design
Warranty / Maintenance	2 years / 5 years

Electrical, Environmental & Compliance Data

Main Power

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

Auxiliary Power

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

Compliance

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

Environmental

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

Communication / Monitoring

- **Ethernet interface, RS-232, CAN-bus, 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**

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