

6U VXS 6023-JL



VXI-D size 6023 Bulletpoints

- **Compliance:** Worldwide autoranging mains input (94–260 VAC) with PFC, CE/UL certified isolation.
- **Power & Efficiency:** Modular low-noise PSU up to 6 kW output, ripple < 3 mVpp (< 12 V) and < 10 mVpp (other rails).
- **Protection:** Integrated over-/under-voltage, over-current and over-temperature protection with programmable trip points and Power Protect Memory.
- **Control & Monitoring:** Front LED display plus remote Ethernet, SNMP, CAN-Bus and RS-232 monitoring for voltage, current and system status.
- **Cooling & Reliability:** Front-to-rear air cooling with plenum chamber, hot-swappable fan tray, MTBF > 65,000 h.
- **Mechanical:** 19" × 9U enclosure, 21 slots, rugged steel–aluminum frame with EMC/ESD protection, rack-mount ready.

Technical Information

Electrical Parameters:	
Mains input range	106–230 VAC $\pm 15\%$ (i.e., approximately 90–265 VAC), worldwide autoranging with power factor correction (PFC)
Input current	16 A for H-input version; 32 A for K-input version
Inrush current	Limited to the rated input current via soft-start circuitry
Input fuse	External fuse; internal fuse available upon special request
Outputs	
Number of channels	Up to eight independent, floating DC outputs; modules can be paralleled for higher current
Output Voltages	Depends on installed power modules: • MEH modules: ○ 2–7 V (115 A / 550 W) ○ 7–16 V (46 A / 550 W) ○ 12–30 V (23 A / 550 W) ○ 30–60 V (13.5 A / 650 W) • MDH / MDL modules with $\pm$ outputs at lower wattages
Output Power	H-version: 1 kW to just under 3 kW DC output. K-version: 2 kW to just under 6 kW DC output
Overvoltage protection	Crowbar protection trips each channel at 125% of nominal voltage; outputs are discharged when tripped or powered off
Overcurrent protection	Yes, integrated self-protection on module level including over-current and over-temperature
Ripple and Noise	< 3 mVpp for all voltages < 12 V. < 10 mVpp (or < 15 mVpp depending on module type) for other rails. All < 2 mVrms over 0–30 MHz
Efficiency	Overall efficiency ranges between 75% and 85% , depending on the combination of modules used
Monitoring & Control	
Voltage	Front alphanumeric LED display provides real-time values; remote control via Ethernet/CAN-Bus/RS-232 (SNMP, web interface)
Current	Also displayed and accessible via remote interfaces
Status LED	Fan tray provides status indicators – green (OK), yellow (fan fail / overheat), red (system fail)
Isolation	
Input - Output	galvanically isolated
Input - Chassis	galvanically isolated
Output - Chassis	galvanically isolated
Environment and Cooling:	
Operation temperature:	0 ... 50 °C ambient without derating; storage –30 ... +85 °C

Cooling media	Front-to-rear air cooling with integrated plenum chamber; fan tray with adjustable speed and thermal control
Mechanical Parameters	
Dimensions	Bin: 19" × 9U × 480 mm (or 12U for 9U boards) Fan tray: 430 mm × 2U (89 mm) × 175 mm Power supply: 430 mm × 3U (133 mm)
Weight	Bin: approx. 14 kg (for 11U version), ~16 kg for 9U bin Fan tray: ~3.5 kg Power supply: 9.6 kg to 20 kg depending on module count
Input Connector	H-input has a removable power cord (3×1.5 mm ²); K-input uses a fixed 2 m cord for up to 32 A
Output connector	Internal DC outputs via power module interface and crate backplane (floating outputs)
Mounting	Standard 19" rack-mountable with rugged steel–aluminum construction; advanced EMC/ESD shielding
Other	
Communication Protocols	Ethernet (web server), SNMP, CAN-Bus, RS-232 for full remote monitoring and configuration
Reliability	Internal blowers: MTBF > 65,000 h at 40 °C; > 100,000 h at 25 °C. Electronics: MTBF > 100,000 h at 40 °C. Water-cooled versions exceed 100,000 h at 40 °C
Warranty / Maintenance	Not specified in the public documentation.

Electrical, Environmental & Compliance Data

Main Power

- **Output Voltages / Currents: Configurable via plug-in modules, e.g.:**
 - 2–7 V (up to 115 A / 550 W)
 - 7–16 V (up to 46 A / 550 W)
 - 12–30 V (up to 23 A / 550 W)
 - 30–60 V (up to 13.5 A / 650 W)
- **Modules can be paralleled for higher current.**
- **Output Power: Up to 6 kW DC (K-input version); up to 3 kW DC (H-input version).**
- **Overvoltage / Overcurrent Protection: Integrated microprocessor-controlled protection; crowbar trips at 125 % of nominal voltage, with Power Protect Memory (PPM).**
- **Ripple & Noise: < 3 mVpp (< 12 V rails); < 10 mVpp (other rails); < 2 mVrms over 0–30 MHz.**
- **Efficiency: 75 – 85 % depending on module configuration.**

Auxiliary Power

- **None – all primary rails provided via UEP 6021 PSU modules.**

Compliance

- **Safety:** CE EN 60950, ISO 380, VDE 0805, UL 1950, C22.2.950.
- **CE Conformity:** Yes, with autoranging mains input and active PFC.

Environmental

- **Operating temperature:** 0 ... 50 °C (ambient, without derating); storage –30 ... +85 °C.
- **Cooling:** Front-to-rear airflow via high-performance, hot-swappable fan tray; 3 DC or HRPm fans with adjustable speed; MTBF > 65,000 h at 40 °C.

Communication / Monitoring

- **Local:** Alphanumeric LED display and status LEDs on fan tray.
- **Remote:** Ethernet (with web server), SNMP, CAN-Bus, RS-232 for full crate, PSU, and fan monitoring/control.

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