6U VME64x 475-x Mini

6U VME64x 475-x Mini Bulletpoints

- Mechanics: 6U × 160 mm, IEEE 1101.10 compliant, EMC/ESD protected
- 7 VME64x (optional P0 connectors)
- 650 W standard (up to ~1100 W), redundant hot-swappable cPCI PSU
- Ripple: typ. < 30 mVpp or < 3 mVrms
- Interfaces: Ethernet & USB via integrated CML Shelf Manager
- Cooling: High-performance DC blower (temperature-controlled, > 60,000 h MTBF)

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Technical Information

Electrical Parameters:	
Inputs	
Mains input range	90…265 VAC, 47–63 Hz
Input current	Not explicitly specified (typically protected by a 10 A fuse)
Inrush current	< 30 A at 230 VAC (cold start)
Input fuse	External 10 A; internal fuse available on request
Outputs	
Number of channels	Supplies power to 7 VME64x slots; optional P0 connectors supported
Output Voltages	Standard rails include +5 V, +3.3 V, ±12 V
Output Power	From 650 W up to ~1100 W, depending on PSU configuration
Overvoltage protection	Trip-off; includes broken sense-line protection
Overcurrent protection	Programmable trip points; includes active DC output discharge
Ripple and Noise	< 50 mVpp; typically < 30 mVpp (0–20 MHz); < 3 mVrms (0–2 MHz)
Efficiency	Up to ~80%, depending on output voltages configured
Monitoring & Control	
Voltage & Current	Managed via WIENER CML Shelf Manager with an alphanumeric LED display showing voltages, currents, fan speed, temperature, etc.
Status LED	4 status LEDs plus front-panel display for operational feedback
Isolation	
Input - Output	Complies with CE EN 60950, ISO 380, VDE 0805, UL 1950, C22.2-950 standards
Input - Chassis	Clean-earth wiring provided (implied by compliance)
Output - Chassis	-
Environment and Cooling:	
Operation temperature:	0…40 °C (no derating required)
Storage temperature	−30 °C to +85 °C
Cooling media	Front-mounted, removable high-RPM DC blower; adjustable speed (1200–3200 RPM); temperature-controlled; airflow direction configurable (front-to-rear or side-to-side); blower MTBF > 60,000 h at 40 °C
Mechanical Parameters	
Dimensions	19" (482 mm) × 5U (215 mm) × 300 mm (W×H×D)
Weight	Approx. 10 kg
Input Connector	Universal 100–240 VAC auto-range AC input with power factor correction; 10 A fuse
Output connector	Standard VME64x backplane; optional P0 connectors available
Mounting	Can be used in tower (desktop) mode or installed in 19" rack

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Other	
Communication Protocols	**Shelf Manager Interface:** Ethernet and USB connections for remote monitoring and control
Reliability	-**Redundancy:** Hot-swappable, rear-accessible 250 W cPCI power supplies; optional 300 W units on request - **Thermal protection:** Heatsink cutoff at >110 °C; ambient shutdown at >70 °C; blower ramps to full speed above 45 °C module exhaust temperature - **Safety:** Active DC output discharge on trip-off; rugged EMC/ESD-protected design; mechanical compliance with IEEE 1101.10
Warranty / Maintencance	2 years / 5 years

Electrical, Environmental & Compliance Data

Main Power

- **Output Voltages / Currents: +5 V (up to 80 A), +3.3 V (up to 60 A), ±12 V (up to 12 A each), depending on PSU configuration**

- **Maximum total power: 650 W standard, up to ~1100 W with high-power PSU**

- **Regulation: Load and line regulation < 0.2 %**

- **Ripple & Noise: < 50 mVpp (typ. < 30 mVpp), < 3 mVrms**

- **Recovery time (10–100 % load): < 0.2 ms**

- **Overvoltage / Overcurrent: Programmable trip points with active DC output discharge**

Auxiliary Power

- **Not applicable – all outputs via VME64x backplane (optional P0 connectors)**

Compliance

- **VME64x and IEEE 1101.10 mechanical standard**

- **CE marked, EMC/ESD compliant, safety tested to EN 60950, UL 1950, CSA C22.2-950**

Environmental

- **Operating temperature: 0 °C to +40 °C**

- **Storage temperature: –30 °C to +85 °C**

- **Cooling: High-performance DC blower (1200–3200 RPM, temperature controlled, > 60,000 h MTBF at 40 °C), removable filter**

- **Airflow configurable: front-to-rear or side-to-side**

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Communication / Monitoring

- **Integrated WIENER CML Shelf Manager**

- **Interfaces: Ethernet and USB**

- **Monitoring of voltages, currents, fan speed, temperatures, status**

- **Front panel with alphanumeric LED display and 4 status LEDs**

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