

# VME195 xP0 mini crate



## VME195 xP0 mini crate Bulletpoints

- Mechanics: 6U × 160 mm, IEEE 1101.10 compliant, EMC/ESD-protected
- Slots: 9 VME64x (optional P0 connectors)
- Power Supply: 650 W standard (up to 1000 W), low-noise VHF switching
- Ripple: typ. < 10 mV(pp) or < 3 mV(rms)
- Interfaces: Ethernet, RS-232, CAN-bus
- Cooling: Adjustable DC blower (1200–3200 RPM), temperature-controlled

# Technical Information

<b>Electrical Parameters:</b>	
<b>Inputs</b>	
Mains input range	106–230 VAC ± 15 % (90...265 VAC)
Input current	Sinusoidal 16 A
Inrush current	Limited to rated input current (cold unit)
Input fuse	External (internal on request)
<b>Outputs</b>	
Number of channels	Provides nine VME64x module slots, with various supply rails depending on configuration (e.g., +5 V, +3.3 V, ±12 V)
Output Voltages	+5 V, +3.3 V, ±12 V (standard, variants on request)
Output Power	650 W to <1100 W (92...265 VAC) depending on supply variant
Overvoltage protection	Crowbar trip-off (adjusted to approx. 125% per output)
Overcurrent protection	Adjustable current limits available
Ripple and Noise	Typically < 10 mVpp or 3 mVrms
Efficiency	Not explicitly specified, but inferred high quality switching design
<b>Monitoring &amp; Control</b>	
Voltage / Current	Voltage / Current: Microprocessor-controlled status monitoring with high-visibility alphanumeric LED display and 4 status LEDs
Status LED	Yes – per crate, visible front display and status indicators
<b>Isolation</b>	
Input - Output	Compliant with CE EN 60950, ISO 380, VDE 0805, UL 1950, C22.2-950
Input - Chassis	Clean-earth wiring provided
Output - Chassis	-
<b>Environment and Cooling:</b>	
Operation temperature:	0...50 °C ambient, no derating necessary
Cooling media	Efficient DC blower with adjustable speed (1200–3200 RPM), temperature-controlled
<b>Mechanical Parameters</b>	
Dimensions	19" × 5U (178 mm) × 480 mm (W×H×D)
Weight	Approximately 25 kg
Input Connector	Standard world-wide auto-range AC input (94...265 VAC) with power factor correction
Output connector	Backplane for VME64x modules; optional P0 connectors available
Mounting	19" rack-mount, or usable as desktop/tower unit
<b>Other</b>	

Communication Protocols	Ethernet / RS-232 / CAN-bus combo interface for crate remote monitoring and control
Reliability	Low-noise VHF switching PSU design, microprocessor-controlled fan and thermal monitoring Adjustable fan speed and automatic thermal protection ensure stable operation
Warranty / Maintenance	No explicit warranty information listed. By default, WIENER equipment typically includes a 2-year standard warranty, extendable to 5 years; hot-swappable elements ensure serviceability.

## Electrical, Environmental & Compliance Data

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### Main Power

- **Output Voltages / Currents: +5 V / up to 120 A, +3.3 V / up to 80 A, ±12 V / up to 12 A (depending on PSU variant; total power 650 W standard, up to 1000 W)**
- **Regulation (load change 10–100 %): < 0.1 % for all main rails**
- **Ripple & Noise (full load): typ. < 10 mVpp or < 3 mVrms**
- **Recovery time (10–100 % load): < 0.2 ms**
- **Output impedance (static/dynamic @ 100 kHz): typ. 1.5 mΩ / 0.5 Ω**

### Auxiliary Power

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

### Compliance

- **NIM standard (AEC report TID20893)**
- **CE Class B, FCC Class B (model-dependent)**

### Environmental

- **Operating temperature: 0 °C to +50 °C (derating > 40 °C by 2 %/°C, up to max. 60 °C)**
- **Storage temperature: –20 °C to +80 °C**
- **Clean earth wiring with 0.25 mm<sup>2</sup>**
- **Non-ventilated rigid chassis**

### Communication / Monitoring

- **Optional CAN-bus interface for DC voltage monitoring and remote on/off**

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