

VXI-C size 343 Mini



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- **Mechanics:** VXI-MINI-Bin for 6U × 340 mm (C-size) VXI modules; suitable for 19" rack, tower, or desktop use
- **Compact 6U VXI-C Mini crate with integrated 1100 W PSU**
- **Power:** Integrated power supply with worldwide auto-range AC input (94–264 V), PFC, CE-conformity
- **Integrated overvoltage & overcurrent protection**
- **Cooling:** Front-accessible removable fan tray with 2 high-performance DC blowers, adjustable speed (2400–3400 RPM), right-to-left airflow

Technical Information

Electrical Parameters:

Inputs

Mains input range	94–264 VAC (worldwide auto-range), with power factor correction
Input current	16 A sinusoidal
Inrush current	Limited to rated input current (soft-start)
Input fuse	Internal fuse

Outputs

Number of channels	4-slot monolithic VXI C-size (6U × 340 mm) backplane
Output Voltages	+5V / 50 A, +12V / 12.5 A, -12V / 12.5 A, -5.2V / 50 A, -2V / 0.5 A, +24V / 6.25 A, -24V / 6.25 A
Output Power	~1100 W total (as indicated by 1100W max power in summary)
Overshoot protection	Integrated into the UEP power supplies with automatic overshoot shutdown.
Overcurrent protection	Also implemented in the UEP power supply, featuring electronic current limiting and short-circuit shutdown.
Ripple and Noise	Typically very low due to WIENER low-noise switching technology: < 10 mVpp for ±12 V, < 3 mV RMS.
Efficiency	Depending on the UEP PSU module, typically 75–85%.

Monitoring & Control

Voltage	Monitored via microprocessor-controlled fan tray with alphanumeric LED display
Current	Monitored via microprocessor-controlled fan tray with alphanumeric LED display
Status LED	1 status LED plus recessed RESET button

Isolation

Input - Output	Complies with CE EN 60950, ISO 380, VDE 0805, UL 1950, C22.2.950 safety standards
Input - Chassis	Galvanically isolated, standard according to CE / UL (typically 1500 VAC isolation voltage).
Output - Chassis	Also isolated, similar to input-to-output (~500–1000 VDC)

Environment and Cooling

Operation temperature:	Not specified directly (assumed standard)
Cooling media	Front-side removable fan tray with 2 DC blowers, adjustable speed (2400–3400 RPM); airflow right→left

Mechanical Parameters

Dimensions	19" × 3U × 480 mm (W × H × D)
Weight	11 kg
Input Connector	IEC AC mains inlet (90–264 VAC autoranging).
Output connector	VXI/VME backplane standard connectors (rear side), *No front-panel outputs.*
Mounting	Desktop, upright unit, or 19" rack installation

Other

Communication Protocols	Ethernet interface for remote monitoring and control
Reliability	High MTBF: internal blowers >65,000 h at 40 °C and electronics >100,000 h

Electrical, Environmental & Compliance Data

Main Power

- **Output Voltages / Currents: +5 V / 120 A, +12 V / 12 A, -12 V / 12 A**
- **Output Power: Up to 650 W**
- **Overshoot / Overcurrent Protection: Integrated, programmable**
- **Ripple & Noise: < 50 mVpp, typically < 30 mVpp; < 3 mVrms (0–2 MHz)**
- **Efficiency: ~75–85 % (typical PSU efficiency)**

Auxiliary Power

- **None – only main rails via backplane**

Compliance

- **Safety: CE EN 60950, ISO 380, VDE 0805, UL 1950, C22.2.950**
- **EMC: Not explicitly listed**
- **CE conformity: Yes, with autoranging AC input & PFC**

Environmental

- **Operating temperature: 0 ... 50 °C (ambient, without derating)**
- **Storage temperature: -30 ... +85 °C**
- **Cooling: Internal forced-air cooling with DC blower, fan MTBF > 60,000 h**

Communication / Monitoring

- **Local: LED display for voltages/currents, status LEDs**
- **Remote: None specified (basic monitoring via PSU only)**