

VXI-C size 343 Mini



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- Compact **6U VXI-C Mini crate** with integrated **650 W PSU**
- **+5 V / 120 A** high current rail for demanding loads
- Low-noise design: **< 50 mVpp ripple**, < 3 mVrms
- **Integrated overvoltage & overcurrent protection**
- **Forced-air cooling** with long-life DC blower (MTBF > 60,000 h)

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, –12 V / 12.5 A, –5.2 V / 50 A, –2 V / 0.5 A, +24 V / 6.25 A, –24 V / 6.25 A
Output Power	~1100 W total (as indicated by 1100W max power in summary)
Overvoltage protection	In den UEP-Netzteilen integriert. Schutzschaltung schaltet bei Überspannung automatisch ab.
Overcurrent protection	Ebenfalls im UEP-Netzteil implementiert, mit elektronischer Strombegrenzung und Abschaltung bei Kurzschluss.
Ripple and Noise	Typisch sehr gering durch WIENER Low-Noise Switcher-Technik: < 10 mVpp für ±12 V, < 3 mV RMS
Efficiency	Abhängig vom UEP PSU-Modul, typisch 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	Galvanisch getrennt, standardmäßig nach CE / UL. (typisch 1500 VAC Isolationsspannung).
Output - Chassis	Ebenfalls isoliert, ähnlich Input–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), keine Front-Ausgänge.
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
Warranty / Maintenance	Not specified

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
- Overvoltage / 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)