

VME-395-Minicrate



VME-395-Minicrate Bulletpoints

- 150 W linear regulated UEP15 power supply
- Outputs: ± 6 V (5 A), ± 12 V (3 A), ± 24 V (1.5 A), optional 115 VAC (0.25 A)
- 12 slots (10 usable for modules)
- 5U height, 19" rack-mount design
- Overload and short-circuit protection
- Low-noise performance for precision measurement systems

Electrical Parameters:

Inputs

Mains input range	90...265 VAC, 47–63 Hz
Input current	Sinusoidal 16A for suffix H input, 32A for suffix K input
Inrush current	Less than 30 A at 230 VAC (cold start)
Input fuse	external, internal on request

Outputs

Number of channels	Provides power for 9 VME64x slots (optional P0 connectors)
Output Voltages	Standard +5 V, +3.3 V, ± 12 V
Output Power	650 W up to approx. 1100 W depending on PSU configuration
Overvoltage protection	Trip-off protection including broken sense-line protection
Overcurrent protection	Programmable trip points; active DC output discharge on trip-off
Ripple and Noise	< 50 mVpp, typically < 30 mVpp (0–20 MHz); < 3 mVrms (0–2 MHz)
Efficiency	Up to ~80%, depending on voltage configuration

Monitoring & Control

Voltage	Monitored via CML shelf manager with alphanumeric LED front display
Current	Same monitoring via CML manager, programmable protection thresholds
Status LED	4 status LEDs plus alphanumeric display (voltage, current, temperature, fan status)

Isolation

Input - Output	Conforms to CE EN 60950, ISO 380, VDE 0805, UL 1950, C22.2-950
Input - Chassis	Clean earth wiring provided
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-performance DC blower, airflow front-to-rear, speed adjustable (2400–7400 RPM), temperature-controlled; blower MTBF > 60,000 h at 40 °C

Mechanical Parameters

Dimensions	19" × 5U (≈ 215 mm) × 417 mm (W×H×D)
Weight	20 kg
Input Connector	Universal auto-range AC input with power factor correction; 10 A fuse
Output connector	Standard VME64x backplane; optional P0 connectors available
Mounting	Desktop/tower use or 19" rack installation

Other

Communication Protocols	CML Shelf Manager with Ethernet and USB interface (rear side)
Reliability	-Redundant 250 W cPCI power supplies (hot-swappable), optional 300 W version -Thermal protection: shutdown at >110 °C heatsink or >70 °C ambient; blower runs at full speed above 45 °C exhaust temperature -Active DC discharge on trip-off -Rugged, EMC/ESD-protected, IEEE 1101.10 compliant design
Warranty / Maintenance	2 years / 5 years

Electrical, Environmental & Compliance Data

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 configuration)
- Maximum total power: 650 W up to approx. 1100 W
- Regulation (load change 10–100 %): < 0.1 %
- Ripple & Noise (full load): < 50 mVpp, typ. < 30 mVpp; < 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 outputs distributed via VME64x backplane

Compliance

- VME64x standard, IEEE 1101.10 compliant
- CE conformity, EMC/ESD protected

Environmental

- Operating temperature: 0 °C to +40 °C (no derating required)
- Storage temperature: –30 °C to +85 °C
- Rugged steel/aluminum chassis with high-performance, front-mounted blower (2400–7400 RPM, temperature controlled)

Communication / Monitoring

- CML Shelf Manager with Ethernet and USB interface for monitoring/control
- Front-panel alphanumeric display for voltages, currents, temperature, and fan status

Kontron Hartmann Wiener GmbH

Linde 18
51399 Burscheid
Tel.: +021746780
info.we@kontron.com
www.kontron.com/kontron-hartmann-wiener