VXI-C size 6021

VXI-C size 6021 Bulletpoints

- **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)**

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Electrical Parameters:	
Inputs	
Mains input range	94 – 260 VAC autoranging, PFC
Input current	16 A (suffix H) or 32 A (suffix K) sinusoidal depending on version
Inrush current	Limited to rated input current (cold unit) via soft-start
Input fuse	External (intern on special request)
Outputs	
Number of channels	Monolithic 13-slot 6U VXI or VXI-4 backplane J1/J2 (and J3 for 9U)
Output Voltages	Versatile configs: e.g. +5 V … up to 230 A; ±12 V etc. (see module table)
Output Power	Up to 3 kW DC for 3U power box, up to 6 kW DC for 6U high-power box
Overvoltage protection	Crowbar protection trip-off adjusted to 125% of nominal voltage each output
Overcurrent protection	Adjustable current limits per module
Ripple and Noise	Ultra low noise version < 3 mVpp (for voltages <12V); others < 10 mVpp
Efficiency	75 % … 85 % depending on used modules
Monitoring & Control	
Voltage	Microprocessor monitoring: voltages,
Current	Same as above: microprocessor monitoring
Status LED	Included in fan tray (shows status/fan fail/overheat etc)
Isolation	
Input - Output	Isolated via design; no AC mains wiring inside bin/fan tray
Input - Chassis	Grounded chassis, safe isolation
Output - Chassis	Floating outputs; chassis isolated
Environment and Cooling:	
Operation temperature:	0 … 50 °C ambient without derating
Cooling media	Fan tray with 6 individually controlled long-life DC fans; speed adjustable 1200–3600 RPM
Mechanical Parameters	
Dimensions	19” (483mm) × 8U (356mm) × 660mm (W × H × D) for 6U/160mm boards.
Weight	~15 kg
Input Connector	94-260 VAC world-wide auto-range mains input (PFC) – for 3U box or 6U box versions
Output connector	DC power terminal behind backplane/top connector row
Mounting	19” rack-mount bin, rugged steel-aluminum construction
Other	
Communication Protocols	Ethernet, CAN-bus interface (fan tray/PSU/bin),
Reliability	Maintenance-free operation time: internal blowers >65 000h at 40°C; electronics >100 000h at 40°C
Warranty / Maintencance	Not specified

Electrical, Environmental & Compliance Data

Main Power

- **Output Voltages / Currents:**
  Flexible configurations depending on installed PSU modules (e.g., +5 V up to 230 A, ±12 V, etc.)
- **Output Power:**
  Up to 3 kW DC (with 3U PSU box) or up to 6 kW DC (with 6U high-power PSU box)
- **Overvoltage / Overcurrent Protection:**
  Adjustable current limits; crowbar over-voltage protection (125% of nominal voltage)
- **Ripple & Noise:**
  Ultra-low noise: < 3 mVpp for low-voltage rails (<12 V), < 10 mVpp for other rails
- **Efficiency:**
  Typically 75–85%, depending on installed PSU modules

Auxiliary Power

- **None (all rails are provided by the PSU modules; no extra auxiliary rails)**

Compliance

- **Safety: Designed according to 6000-series PSU standards**
  (CE, EN 60950, ISO 380, VDE 0805, UL 1950, C22.2.950)
- **CE conformity: Yes, autoranging mains input with PFC**

Environmental

- **Operating temperature: 0 … 50 °C ambient without derating**
- **Cooling: High-performance fan tray with 6 individually controlled DC fans**
  Adjustable fan speed 1200–3600 RPM, airflow bottom-to-top, integrated air filter

Communication / Monitoring

- **Local: Alphanumeric LED display and status LEDs on fan tray**
- **Remote: Ethernet, RS232, CAN-bus interface for full crate monitoring and control**

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