

# VXI-D size 6021



## VXI-D size 6021 Bulletpoints

- **Mechanics:** 11U × 19" rackmount, VXI D-size compliant, EMC/ESD-protected
- **Slots:** 13 VXI D-size user slots (9U × 340 mm)
- **Power Supply:** Up to 6 kW DC output, modular PSU configuration (UEP 6021)
- **Interfaces:** Ethernet, RS232, CAN-bus for remote monitoring & control
- **Cooling:** Fan tray with 6 adjustable DC fans, bottom-to-top airflow, optional filter
- **Protection:** Built-in overvoltage/overcurrent/overtemperature protection via microprocessor-controlled PSU

## Technical Information

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### Electrical Parameters:

#### Inputs

|                   |                                             |
|-------------------|---------------------------------------------|
| Mains input range | 94–260 VAC autoranging with PFC             |
| Input current     | Depends on load (up to full 6 kW DC output) |
| Inrush current    | Limited via PSU system (UEP 6021)           |
| Input fuse        | Integrated in PSU module                    |

#### Outputs

|                        |                                                                         |
|------------------------|-------------------------------------------------------------------------|
| Number of channels     | Flexible (up to 8 floating DC outputs via PSU modules)                  |
| Output Voltages        | +5 V (up to 230 A), ±12 V, –5.2 V, ±24 V, other configurations possible |
| Output Power           | Up to 6 kW DC with 6U PSU box (3 kW with 3U option)                     |
| Overvoltage protection | Yes, microprocessor-controlled (UEP 6021)                               |
| Overcurrent protection | Yes, microprocessor-controlled (UEP 6021)                               |
| Ripple and Noise       | <3 mVpp (<12 V rails), <10 mVpp (other rails)                           |
| Efficiency             | 75–85% (VHF-switching PSU)                                              |

#### Monitoring & Control

|            |                                                      |
|------------|------------------------------------------------------|
| Voltage    | Remote monitoring via Ethernet / RS232 / CAN-bus     |
| Current    | Remote monitoring via Ethernet / RS232 / CAN-bus     |
| Status LED | Alphanumeric LED display and status LEDs on fan tray |

#### Isolation

|                  |                       |
|------------------|-----------------------|
| Input - Output   | galvanically isolated |
| Input - Chassis  | galvanically isolated |
| Output - Chassis | galvanically isolated |

#### Environment and Cooling:

|                        |                                                                                |
|------------------------|--------------------------------------------------------------------------------|
| Operation temperature: | (similar to 6000-series)                                                       |
| Cooling media          | Forced air, bottom-to-top airflow, filtered Fan tray with 6 adjustable DC fans |

#### Mechanical Parameters

|                  |                                                                        |
|------------------|------------------------------------------------------------------------|
| Dimensions       | 11U × 19" rackmount (depth ~640 mm)                                    |
| Weight           | ~15 kg (UEV bin) + 8 kg (fan tray) + 15–29 kg (PSU depending on 3U/6U) |
| Input Connector  | AC input at PSU module                                                 |
| Output connector | Crate rear connectors (backplane J1/J2/J3)                             |
| Mounting         | 19" rackmount, IEEE VXI D-size compliant                               |

#### Other

|                         |                                                                                 |
|-------------------------|---------------------------------------------------------------------------------|
| Communication Protocols | Ethernet, RS232, CAN-bus                                                        |
| Reliability             | Industrial-grade PSU system; fan MTBF >65 000 h; hot-swappable fan tray         |
| Warranty / Maintenance  | Standard WIENER warranty; modular maintenance with replaceable PSU and fan tray |

## Main Power

- **Output Voltages / Currents:** Flexible configurations (e.g., +5 V up to 230 A,  $\pm 12$  V,  $-5.2$  V,  $\pm 24$  V, etc.)
- **Output Power:** Up to 6 kW DC with 6U PSU box (or 3 kW with 3U)
- **Overvoltage / Overcurrent Protection:** Integrated via microprocessor-controlled PSU system (UEP 6021)
- **Ripple & Noise:** Ultra-low noise:  $<3$  mVpp for  $<12$  V rails;  $<10$  mVpp for other rails
- **Efficiency:** High, typical of VHF-switching PSU (approx. 75–85%)

## Auxiliary Power

- **None** – primary rails provided via UEP 6021 PSU modules

## Compliance

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

## Environmental

- **Operating temperature:** Not specified (comparable to 6000-series)
- **Cooling:** High-performance fan tray (6 adjustable DC fans, airflow bottom to top, air filter option)

## 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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