

MPOD High Voltage module



Key Performance Features of MPOD High Voltage Modules

- Up to 48 high voltage channels per module, mixable in one MPOD frame
- Voltages up to 20 kV, with currents up to 15 mA per channel
- Ultra-low ripple & noise: typically < 10 mVpp (precision < 5 mVpp)
- Common or floating output (up to 2000 V potential difference)
- Advanced protection: per-channel trip, inhibit, and safety loop
- Full remote control via Ethernet or CAN-bus

Technical Specifications

Channels per module	4, 8, 16, 24, 32, or 48
Voltage range	Up to 20 kV
Chassis	19" rack mount, 8U (or 9U with front cooling), 460 mm deep, approx. 20 kg (depends on config)
Current per channel	Up to 15 mA
Output types	Common ground or floating (20 V / optional 200 V or 2000 V potential difference)
Output connectors	SHV (4/8/12/16 ch), REDEL (16/32/48 ch)
Ripple and noise	Typically < 10 mVpp (High precision: < 5 mVpp)
Voltage/Current resolution	16 or 21 bit (setting & measurement)
Protection features	Hardware voltage/current limits, fast trip, inhibit, safety loop
Control interface	Remote via CAN-bus or Ethernet
Dimensions	6U × 40.64 mm × 220 mm
Weight	Approx. 2 kg
Grounding Options	Common ground or floating (20 V default; optional 200 V / 2 kV)
Connectors	SHV (4/8/12/16ch), REDEL multi-pin (16/32/48ch)

Options Overview

Polarity	Fixed positive (p) or negative (n) per module
Ground Mode	Common Ground (CFG) or Floating Ground (FG) with additional insulation up to 200 V/2 kV
Channel Inhibit	Per-channel INHIBIT: Down (ID) or Up (IU)
Safety Loop	Active (SLA) or internally powered (SLP) loops
Low-Noise Version	Very Low-Noise (VLN) options available
High Precision Mode	HP variants with < 5 mVpp noise & 30 ppm temp coefficient
Low-Current Mode	Option "L" available for sub-mA operation with improved precision

Kontron Hartmann Wiener GmbH

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