

MPOD Full Size Crate



Key Features of the MPOD Full Size Crate

- Modular 19" chassis for up to 10 HV/LV modules (6U × 8PU, mixable).
- Flexible design: front/rear output, bottom/front cooling, optional dust filter.
- HV modules (ISEG): 8–48 channels, 500 V–20 kV, low noise, up to 480 channels.
- LV modules (WIENER): 8 channels, 0–120 V, up to 50 W/channel, low ripple.
- Interfaces: Ethernet, USB, CAN, interlock; optional Linux CC24 controller.
- Efficient PSU: Low-noise UEP6021, 94–265 VAC, CE; optional local display.

Special Interlock & Status Connections

Comprehensive Interface Overview

System Type	Universal multichannel low- and high-voltage power supply system
Modules & Capacity	Up to 10 plug-in modules; 80–500 individually controlled channels
Chassis	19" rack mount, 8U (or 9U with front cooling), 460 mm deep, approx. 20 kg (depends on config)
Cooling	Bottom or front air intake, optional dust filters, modular fan unit and PSU
Voltage Ranges	HV: 500 V–20 kV; up to 48 channels per module LV: up to 120 V, 8 channels, 50 W per channel
Control & Interfaces	Ethernet, CAN, USB, Interlock; TCP/IP with Web server & SNMP; optional embedded Linux (CC24)
Power Supply	UEP6021-based; 94–265 VAC auto-range; CE certified with active PFC
EMC Compliance	EN 61000-6-3, EN 61000-6-2, EN 55022 Class B, plus surge and burst immunity
Operating Conditions	0–50 °C (operation), –30 °C to +85 °C (storage), no derating require
Stability	10 mV or 0.1 % over 24 h; 25 mV or 0.3 % over 6 months
Safety Features	OVP, OCP, overtemperature (125 °C), crowbar, under/over-voltage protection
Efficiency	75 %–85 %, depending on modules
MTBF	Fans: >65,000 h (40 °C), >100,000 h (25 °C); Electronics: >100,000 h

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