

MPOD Mini Crate



Key Bullet Points — MPOD Mini Crate

- Compact 19" 4U mini crate with 4 slots for freely combinable high-voltage (HV) and low-voltage (LV) modules
- Supports up to 192 HV channels (100 V to 20 kV) and up to 32 LV channels (0–120 V), all channels individually controllable and monitorable
- Integrated controller card with Ethernet (10/100), CAN bus, and USB-2 interfaces; optionally with ISEG CC24 controller (Linux-based)
- Built-in 600 W power supply with low noise and ripple, integrated fan for active cooling
- Flexible configuration: HV only, LV only, or mixed modules possible; optional local control via LCD display
- ☐ Compliant with international EMC and safety standards; worldwide auto-ranging mains input (90–265 V AC)

Technical Information

Mains voltage	106–230 VAC $\pm$ 15% (90–265 VAC)
Rated current	16 A (suffix H), 32 A (suffix K)
Inrush current	Limited to rated current (cold unit)
Isolation standards	CE EN 60950, ISO 380, VDE 0805, UL 1950, C22.2.950
DC output power	600 W up to <3000 W (92–265 VAC), 300 W for MPOD micro
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EMC standards (emissions & immunity)	EN 61000-6-3, EN 55022 Class B, EN 61000-6-2, etc.
Operating temperature	0 °C to 50 °C (without derating)
Storage temperature	-30 °C to +85 °C
Temperature coefficient	< 0.2 % per 10 K
Stability (under constant conditions)	10 mV / 0.1 % (24 h), 25 mV / 0.3 % (6 months)
Current limit	Adjustable to any lower value
Voltage rise	Monotonic, 50 ms, processor-controlled
Overvoltage protection	Crowbar shutdown at 125 % of nominal voltage per output
DC trip-off	< 5 ms at >5 % deviation, overload, overheating, over/undervoltage, fan failure
Efficiency	75 % to 85 % (depending on modules)
Maintenance-free operation time (MFO)	Fans at 40 °C > 65,000 h, at 25 °C > 100,000 h; electronics at 40 °C > 100,000 h

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