

MPOD Low Voltage Module



High-Precision Low Noise DC Power Output per Channel

- Compact 19" x 1.5U chassis for 1 high voltage (HV) or low voltage (LV) module, suitable for rack, desktop, or micro tower mounting
- Supports up to 48 HV channels (500 V – 20 kV) or 8 LV channels (0 – 120 V, max. 50 W per channel), all individually controlled and monitored
- Integrated 600 W primary power supply for LV and 100 W for HV modules, with low noise and ripple
- Advanced cooling system with side-to-side airflow, integrated fan, and air filter; optional local display and control
- MPOD controller with Ethernet 10/100, CAN bus, USB-2 interfaces, interlock connector; optional ISEG CC24 Linux controller with web server and TCP/IP communication
- Worldwide AC input range 90–265 V with power factor correction, CE certified; high efficiency (75%–85% depending on modules)

Dimensions & Weight	19" (482 mm) x 1.5U (178 mm) x 480 mm (W×H×D), approx. 10 kg
Input Voltage	90 – 265 VAC (worldwide auto-range), nominal 106–230 VAC ±15%
Input Current	Sinusoidal 16 A (suffix H), 32 A (suffix K)
Inrush Current	Limited to rated input current (cold unit)
Fuse	External, internal on request
Isolation	CE EN 60950, ISO 380, VDE 0805, UL 1950, C22.2.950
DC Output Power	600 ... <3000 W (92–265 VAC), 300 W for MPOD Micro
Channels & Voltage Ranges	HV: 8–48 channels, 500 V ... 20 kV (ISEG EHS/EDS/EBS modules) LV: 8 channels, 0–8 V up to 0–120 V (WIENER MPV 8xxx series)
Noise & Ripple	Low noise and ripple; exact values depend on the module
Cooling	Integrated fan with side-to-side airflow, air filter
Control & Interfaces	Ethernet 10/100, CAN bus, USB-2, Interlock Optional: ISEG CC24 controller (Linux OS, web service, SNMP, OPC, EPICS IOC)
EMC Compliance	EN 61000-6-3 (RF emission), EN 55022 Class B (conducted & radiated noise), EN 61000-3-2/3-3 (harmonics & flicker)
	EN 61000-6-2 (immunity), various EN 61000-4-x standards (ESD, surge, burst, RF fields)
Operating Temperature	EN 61000-6-2 (immunity), various EN 61000-4-x standards (ESD, surge, burst, RF fields)
Operating Temperature	0 ... 50 °C (without derating)
Storage Temperature	-30 ... +85 °C
Temperature Coefficient	< 0.2 % / 10 K
Stability	10 mV or 0.1 % over 24 hours
	25 mV or 0.3 % over 6 months (constant conditions)
Overcurrent & Overvoltage Protection	Adjustable current limit
	Crowbar protection trip at 125 % of nominal voltage per output
Fast Trip Off	Within 5 ms if >5 % deviation, overload, overheating, fan failure or >125 °C at heat sinks; outputs discharged
Efficiency	75 % to 85 %, depending on installed modules
Maintenance-Free Operation Time (MTBF)	Fans: >65,000 h at 40 °C, >100,000 h at 25 °C
Voltage rise characteristics:	Electronics: >100,000 h at 40 °C

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