

MPOD Low Voltage Module



High-Precision Low Noise DC Power Output per Channel

- Up to 8 or 4 individually controlled LV channels per module
- Output power: 50 W up to 100 W per channel
- Voltage ranges: 0–8 V, 0–16 V, 0–30 V, 0–60 V, 0–120 V
- Resolution: up to 21 bit for voltage/current (High Precision Series)
- Ripple & noise: <3 mVpp (0–20 MHz)
- Dimensions: 6U x 40.64 mm x 220 mm; weight ~2 kg
- 75% ... 85%, depends on used modules

Rated mains input range	106- 230VAC $\pm$ 15% (90...265VAC)
Rated input current	Sinusoidal 16A for suffix H input, 32A for suffix K input
Inrush current	limited to rated input current (cold unit)
Input fuse	external, internal on request
Isolation (Inp.- outp.)	CE EN 60950, ISO 380, VDE 0805, UL 1950, C22.2.950
DC output power:	600 ... <3000W (92 ...265VAC) / 300W for MPOD micro
EMC Compatibility EMA.	
EN 61 000-6-3:2001	[RF emission]
EN 55 022:1998 + Corr:2001 + A1:2000 Class B	conducted noise
EN 55 022:1998+ Corr:2001 + A1:2000 Class B	radiated noise
EN 61 000-3-2:2001	harmonics
EN 61 000-3-3:1995 +Corr:1997 +A1:2001	flicker
EMC Compatibility EMB	
EN 61 000-6-2:2001	[immunity]
EN 61 000-4-6:1996 + A1:2001	injected HF currents
EN 61 000-4-3:1996 + A1:1998 + A2:2001	radiated HF fields incl. "900MHz"
EN 61 000-4-4:1995 + A1:2001	Burst
EN 61 000-4-5:1995 + A1:2001	Surge
EN 61 000-4-11:1994 + A1:2000	voltage variations
EN 61 000-4-2:1995 + A1:1998 + A2:2001	ESD
Operation temperature:	0..50°C ambient without derating, Storage:-30°C..+85°C
Temperature coefficient:	< 0,2% / 10K
Stability	10mV or 0,1% / 24 hours, 25mV or 0,3% / 6 month
Current limits:	adjustable to any lower level
Voltage rise characteristics:	monotonic 50ms, processor controlled.
Overvoltage protection:	crow bar protection trip off adjusted to 125% of nominal voltage each output
DC Off (trip off):	within 5ms if >5% deviation from adjusted nominal values, after overload, overheat, overvoltage, undervoltage (bad status), and fan fail, if temperatures exceed 125°C at heat sinks Limits programmable.

	Outputs discharged by crow bars, when power supply tripped- or switched Off.
Efficiency:	75% ... 85%, depends on used modules
M F O T (Maintenance Free Operation Time):	
internal blowers:	40°C ambient > 65 000 h 25°C ambient > 100 000 h
electronics	40°C ambient >100 000 h
Fully shielded mechanics	6U height, 220 mm deep, fully shielded
Output connectors	2 × 37-pin Sub-D (for DC and sense, 4 or 2 channels each)
Individual sensing	All DC outputs with individual return lines, floating channel-to-channel and channel-to-chassis (125 V, 500 V optional)
Accuracy	Voltage and current ±0.1% of full scale (Standard), 21-bit resolution in High Precision series
Programmable parameters	Terminal and load voltage, under-/over-voltage trip points, current limit, power, ramp speed (1 V/s to 500 V/s)
Monitoring & control	Voltage, current, status LED per channel, controlled via MPOD controller over Ethernet (TCP/IP) and USB
Status indicators	Multi-color status LEDs on the front panel per channel
Weight	Approx. 2 kg
Stability	High stability, 0.2% drift per 10,000 hours

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