

# MPOD Crate

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## Universal Multichannel Low- and High- Voltage System

**WIENER presents with Mpod a new, universal multi-channel low voltage (LV) and high voltage (HV) computer controlled power supply system. Offering highest channel density the MPOD mainframe can house up to 10 plug-in modules which results in 80 up to nearly 500 individually controlled channels per mainframe. Built in a modular way MPOD consists of the mainframe / bin, a front side plug-in controller with Ethernet and USB ports, a fan tray and a power supply which is located in the back.**

In order to tailor the system to individual hardware needs MPOD can be configured as "low-voltage only", "high voltage only" or "mixed configuration". Further the MPOD mainframe is configurable to have all LV / HV connectors either on the front or rear side. Different control and monitoring options are offered. The MPOD controller with a interfaces for 10/100 Ethernet, CAN bus and USB-2 provides a variety of network capabilities. Local control is available by using the optional LCD display.

## Main Features

- 8U x 19" rack mountable HV/LV chassis, compact design with ruggedized mechanics, two mounting modes: outputs at front- or at rear side

- Modular design: fan tray and primary power supply easily removed
- Up to 10 LV or HV modules per chassis, high voltage modules with 8 ...48 channels of 500V ... 10kV, 8 channel low voltage modules of 0 - 8V ... 0 - 120V ranges
- Mpod Controller with Ethernet, CAN-bus, USB interface, and interlock input

## Mpod Features

- 19" rack mountable bin with module cage for 10 LV or HV modules, compact design with ruggedized mechanics
- Two mounting modes: outputs at front- or at rear side
- 8U bin for bottom cooling air intake, 9U high for front air intake, optional with dust filter
- Modular design: fan tray and primary power supply easily removed
- Module size 6U x 8PU, 220mm deep
- LV and HV modules freely mixable
- High Voltage modules (ISEG) with 8 ... 48 channels of 500V ... 10kV, floating or common ground, low noise and ripple, up to 480 HV channels per mainframe possible
- Low Voltage modules (WIENER) with 8 channels in 0-8V ... 0 – 120V ranges, up to 50W/channel max., low noise and ripple
- Lowest noise and ripple
- High precision / resolution for monitoring and setting
- Mpod Controller with Ethernet, CAN-bus, USB interface, and interlock input, TCP/IP with Web-server and SNMP protocol
- Primary power supply based on UEP6021 technology, low noise / high reliability design
- 94V - 265VAC world-wide auto-range AC input, with power factor correction, CE
- Graphic display for local monitoring and programming with dual rotary/push- buttons (optional)
- Dimensions: 19" x 460mm (depth) x 8U (bottom air intake) or 9U (front air intake)
- Weight: ca. 20 kg, depending on options

Type	Graphic display local control	Slots	Primary HV-power	Output position	Backplane supports
Mpod EC	-	10	600W	Front	HV/LV
Mpod EC-R	-	10	600W	Rear	HV/LV
Mpod LX	LCD	10	600W	Front	HV/LV
Mpod LX-R	LCD	10	600W	Rear	HV/LV
Mpod EC LV	-	10	-	Front	LV
Mpod EC LV-R	-	10	-	Rear	LV
Mpod EC HV	-	10	600W	Front	HV
Mpod EC HV-R	-	10	600W	Rear	HV
Mpod LX LV	LCD	10	-	Front	LV
Mpod LX LV-R	LCD	10	-	Rear	LV
Mpod LX HV	LCD	10	600W	Front	HV

<b>Mpod LX HV-R</b>	LCD	10	600W	Rear	HV
<b>Mpod 2H</b>	-	10	1200W	Front	HV
<b>Mpod 2H-R</b>	-	10	1200W	Rear	HV
<b>Mpod 2H LX</b>	LCD	10	1200W	Front	HV
<b>Mpod 2H LX-R</b>	LCD	10	1200W	Rear	HV

**Specs:**

<b>Rated mains input range</b>	106- 230VAC $\pm$ 15% (90...265VAC)
<b>Rated input current</b>	Sinusoidal 16A for suffix H input, 32A for suffix K input
<b>Inrush current:</b>	limited to rated input current (cold unit)
<b>Input fuse:</b>	external, internal on request
<b>Isolation (Inp.- outp.)</b>	CE EN 60950, ISO 380, VDE 0805, UL 1950, C22.2.950
<b>DC output power:</b>	600 ... <3000W (92 ...265VAC)

**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
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

<b>Operation temperature:</b>	0... 50°C ambient without derating, Storage:-30°C ... +85°C
<b>Temperature coefficient:</b>	< 0,2% / 10K

<b>Stability:</b>	10mV or 0,1% / 24 hours, 25mV or 0,3% / 6 month	
	(under constant conditions)	
<b>Current limits:</b>	adjustable to any lower level	
<b>Voltage rise characteristics:</b>	monotonic 50ms, processor controlled.	
<b>Overvoltage protection:</b>	crow bar protection trip off adjusted to 125% of nominal voltage each output	
<b>DC Off (trip off):</b>	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.	
<b>Efficiency:</b>	75% ... 85%, depends on used modules	
<b>M F O T (Maintenance Free Operation Time):</b>		
<b>internal blowers:</b>	40°C ambient	>65 000 h
	25°C ambient	100 000 h
<b>electronics:</b>	40°C ambient	>100 000 h

## Product Data Sheet

MPOD Crate: [Print Product Data Sheet](#)

## Documentation

Manual and Tech-Notes : [MPOD](#)

Introduction: [WIENER Power Supplies intro](#)

## Downloads

CD-ROM : [MPOD](#)

MUSEcontrol : [Download](#)

SNMP: [Download](#)

OPC-Server: [Download](#)

USB-to-IP: [Download](#)

Programming Tool (display): [Download](#)

Firmware MPOD: [Download](#)

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