MPOD Micro crate

Request Quote

MPOD Micro crate

The Mpod micro crate is the smallest and low cost option for the WIENER multi-channel high and low voltage power supply system. The Mpod micro mainframe can house 1 plug-in low or high voltage modules. The integrated Mpod controller card provides10/100 Ethernet, CAN bus and USB-2 interfaces.

High voltage modules are available with 8 up to 48 channels in the voltage range of 500V ... 10kV. All low voltage modules have 8 channels with a maximum of 50W / channel in different voltage ranges. All HV and LV channels are individually controlled and monitored.

Main Features

- 19" x 1.5U micro bin with module cage for 1 LV or HV modules, with built-in low noise primary power supply and front to rear ventilation fans
- Up to 48 HV channels HV possible / 8 channels low voltage per chassis
- MPOD controller with Ethernet, USB and CAN-bus interface

- 19" x 1.5U micro bin with module cage for 1 LV or HV module, can be used as desktop, micro tower or rack mountable
- 1 slot for modules, LV and HV modules
- Bin for fully redundant operation of 2 MPOD micro available
- Up to 48 channels high voltage possible, ISEG EHS/EDS/EBS modules with 8 … 48 channels in a range of 500V up to 10kV, floating or common ground
- Up to 8 channels low voltage per chassis, WIENER MPV 8xxx series 8-channel low voltage modules in 0...8V up to 0....120V ranges

- built in primary power supply (600W LV, 100W HV), low noise and ripple
- integrated front to rear cooling fans
- Mpod controller card with Ethernet 10/100, CAN-bus and USB-2 interfaces, Interlock connector
- Integrated web-server and TCP/IP communication via SNMP, OPC server, DHCP capable
- 94V – 265V world-wide auto-range AC input, with power factor correction, CE-conformity
- Dimensions: 19” (482mm) x 1.5U (178mm) x 480mm [whd], weight: ca. 10 kg

Type	Graphic display local control	Slots	Primary HV-power	Output position	Backplane supports
Mpod MICRO	No	1	100W	Front	HV/LV

Specs:

Rated mains input range	106- 230VAC ± 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)

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

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	
	(under constant conditions)	
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

Product Data Sheet

MPOD Micro 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