MPOD Mini crate

Request Quote

The Mpod mini crate is the small and low cost option for the WIENER multi-channel high and low voltage power supply system. The Mpod mini mainframe can house up to 4 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 ... 20kV. 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.

In order to tailor the system to the individual hardware needs Mpod mini can be configured as "low-voltage only", "high voltage only" or "mixed configuration". Local control is available by using the optional LCD display.

MPOD Mini crate

Main Features

- 19" x 5U mini bin with module cage for 4 LV or HV modules, with built-in low noise primary power supply and super-blower ventilation fan
- Versions available for HV only, LV only or mixed LV/HV
- Up to 192 HV channels HV possible / 32 channels low voltage per chassis
- MPOD controller with Ethernet, USB and CAN-bus interface

- 19" x 5U mini bin with module cage for 4 LV or HV modules, can be used as desktop, mini tower or rack mountable
- Versions available for HV only, LV only or mixed LV/HV
- 4 slots for modules, LV and HV modules freely combinable
- Up to 192 channels high voltage possible, ISEG EHS/EDS/EBS modules with 8 … 48 channels in a range of 500V up to 20kV, floating or common ground
- Up to 32 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), low noise and ripple
- integrated cooling fan
- Mpod controller card with Ethernet 10/100, CAN-bus and USB-2 interfaces, Interlock connector, optional with ISEG CC24 controller (linux OS with iCS web service, EPIC's IOC, OPC and SNMP)
- 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 4U (178mm) x 480mm [whd], weight: ca. 25 kg

Type	Graphic display local control	Slots	Primary HV-power	Output position	Backplane supports
Mpod MINI	No	4	600W	Front	HV/LV
Mpod MINI - LX	Yes	4	600W	Front	HV/LV

Mpod MINI-HV	No	4	600W	Front	HV
Mpod MINI-HV-LX	YES	4	600W	Front	HV
Mpod MINI-LV	No	4	-	Front	LV
Mpod MINI-LV-LX	Yes	4	-	Front	LV
Mpod MINI basic	No	4	300W	Front	HV+LV
Mpod MINI-HV basic	No	4	300W	Front	HV
Mpod MINI-LV basic	No	4	-	Front	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 Mini 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