MPOD LV Module

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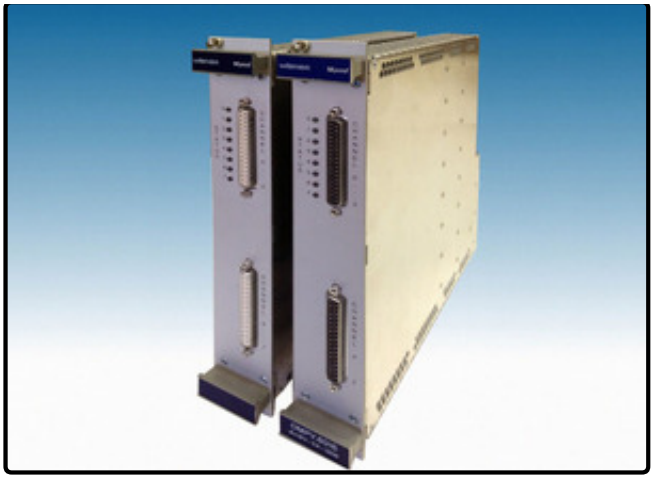

MPOD LV Module

Multichannel Low Voltage Modules

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 can be mixed in type and parameters. Up to 80 individually controlled low voltage channels are available in one mainframe

All Mpod low voltage modules have 8 channels with a maximum of 50W per channel in different voltage ranges. All channels are individually controlled and monitored and have floating, individually sensed outputs. A control input for each channel can be used for Interlock / Inhibit or external hardware ON/OFF.

Main Features

- Mpod module with 8 low voltage DC channels, up to 120V and 50W/channel
- Lowest noise and ripple, high stability
- All channels are individually controlled, floating and sensed
- Programmable trip points, ramps, failure action and group behavior
- Voltage or current controlled operation

- Low Voltage floating modules with 8 channels of 50W max. with 0-8V, 0-16V, 0-30V, 0-60V and 0-120V ranges

- 6U height, 220mm deep fully shielded mechanics
- All DC outputs with individual return lines, individually sensed, floating channel to
- channel and channel to chassis ground (125V, 500V tested)
- Extremely low noise and ripple: <3mVpp (0-20MHz)
- Voltage and current settings / monitoring for each channel, 15 bit resolution, accuracy
- +/-0.1% of full scale value
- Current monitoring and limiting for each channel, 15 bit resolution, accuracy +/-0.05%
- of full scale value
- high stability, 0.2%/10k
- Programmable channel parameters:
  - Terminal and load voltage, under voltage / over voltage trip points
  - current limit (current or voltage controlled mode)
  - power, regulation type, internal / external sense
  - ramping speed up and down (1V/s … 500V/s)
  - group features / error handling
- programming and monitoring via Mpod controller Ethernet (TCP/IP) and USB ports
- Output Connectors: 2 x 37 pin sub-D for DC and sense (4 channels each)
- Front panel multi-color Status LED for each channel
- Dimensions: 6U x 40.64mm x 220mm
- Weight: ca. 2 kg

Type	Channels	Voltage	I Max	Peak Power	V-Res	I-Res	Ripple*
MPV 8008D	8	0 - 8V	10A	50W / ch.	0.5mV	0.5mA	<3mVpp
MPV 8008I	8	0 - 8V	10A	50W / ch.	0.5mV	0.5mA	<3mVpp
MPV 8008LD	8	0 - 8V	5A	40W / ch.	0.5mV	0.25mA	<3mVpp
MPV 8008LI	8	0 - 8V	5A	40W / ch.	0.5mV	0.25mA	<3mVpp
MPV 8016D	8	0 - 15V	5A	50W / ch.	1mV	0.25mA	<2mVpp
MPV 8016I	8	0 - 15V	5A	50W / ch.	1mV	0.25mA	<2mVpp
MPV 8030D	8	0 - 30V	2.5A	50W / ch.	2mV	0.12mA	<2mVpp
MPV 8030I	8	0 - 30V	2.5A	50W / ch.	2mV	0.12mA	<2mVpp
MPV 8060D	8	0 - 60V	1A	50W / ch.	4mV	0.06mA	<2mVpp
MPV 8060I	8	0 - 60V	1A	50W / ch.	4mV	0.06mA	<2mVpp
MPV 8120D	8	0 - 120V	100mA	50W / ch.	4mV	4 µA	<2mVpp
MPV 8120I	8	0 - 120V	100mA	50W / ch.	4mV	4 µA	<2mVpp

D = Sub **D** 37 pin female connector;

I = Interlock, with sub **D** 37 pin female connector.

Connectors are **IEC807-3/DIN41652** conform. Custom made cable sets are available

* ripple 20MHz bandwidth

8 channel low voltage module with floating outputs with individual return lines and sense lines

- Polarity configurable by wiring, outputs are insulated from each other and the chassis mainframe earth with 125V DC working voltage (Test voltage = 500VDC)
- 0.2% / 10K output voltage stability
- Voltage set / monitor: 15 bit resolution, +/-0.1% of full scale or better accuracy, measurement of both sense and terminal voltage
- Current limit set / monitor: 15 bit resolution, +/-0.05% of full scale or better accuracy
- Ramp-up / down programmable from 1 V/s to 500 V/s in 1 V/s steps.
- Output Voltage Ripple: < $10mV_{pp}$; $1mV_{Rms}$ with 350MHz Bandwidth
  < $5mV_{pp}$; $0.5mV_{Rms}$ with 100MHz Bandwidth
  < $3mV_{pp}$; $0.5mV_{Rms}$ with 20MHz Bandwidth
- Low conducted distubance current
- Static Regulation: < 10mV
- Dynamic Regulation: <100mV with I = +/- 25% change and 70A/s recovery time < 5mS
- Dimensions: 6U x 40.64mm x 220mm
- Front Panel Indicators: tri-color LED's with on / off / failure for every channel
- Interlock Loop – optional
- Safety Loop – in connector PIN 18 and 37

Product Data Sheet

MPOD LV Module:	Print Product Data Sheet

Documentation

Manual and Tech-Notes :	MPOD
Introduction:	WIENER_Power_Supplies_intro

Downloads

CD-ROM :	MPOD