

# **HITEK POWER® MH100 SERIES**

VERSATILE HIGH-VOLTAGE POWER SUPPLY MODULES





# Full range control and monitoring of voltage for OEM equipment



The MH100 series is a range of versatile high-voltage modules suitable for specification in OEM equipment as component power supplies. Powered from 24 VDC, these units allow full range control and monitoring of voltage and current via 0 to 10 V analog signals. In addition, internal potentiometers are provided for voltage and current control.

## **Features**

- > 100 W output power
- > High reliability
- > 24 VDC powered
- > Range of outputs available
- > Positive or negative polarity
- Short circuit and flashover protection
- > Remotely controllable
- V and I control
- V and I monitor
- > LED status indication
- Low ripple marked
- › CE marked

# **Typical Applications**

- Wide angle, high definition CRTs
- > X-ray equipment
- > Insulation and materials testing
- > Electron- and ion-beam acceleration
- > Projection

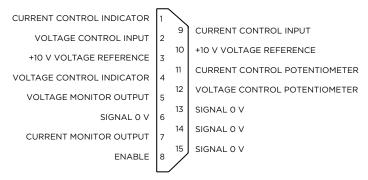


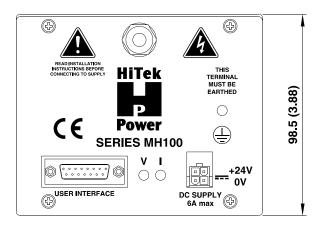
Output Power         100 W max           Output Voltage         0 to 50 kV depending on model           Output Current         0 to 20 mA depending on model           Input Voltage         1/24 VDC (±2 VDC)           Input Current         6 A max           Polarity         Positive or negative to order           Ripple         < 0.1% peak to peak           Voltage Regulation         Line < 0.0% for a 10% change in input voltage           Load: < 0.0% for 10% to full load	SPECIFICATIONS	
Output Current Input Voltage 1+24 VPC (42 VPC) Input Current 6 A max Polarity Positive or negative to order Rippie < 0.1% peak to peak Voltage Regulation Line: < 0.0% for a 10% change in input voltage Load: < 0.1% for 10% to full load Current Regulation Load: < 0.1% for 10% to full load Line: < 0.00% for a 10% change in input voltage Load: < 0.1% for 10% to full load Voltage Control Voltage Control Vol to 10 V for 10 to reated output voltage, accuracy ±1% of rated voltage Via remote potentiometer min resistance 9 kΩ Via internal potentiometer Via remote potentiometer min resistance 9 kΩ Via internal potentiometer Any combination of V and I control may be used  Monitors Voltage: 0 to 10 V 10 V 10 V for 0 to rated output voltage Current: 0 to 10 V 10 V 10 V 10 V for 0 to rated output voltage Current: 0 to 10 V 10 V 10 V for 0 to rated output voltage Current: 0 to 10 V 10 V 10 V 10 V 10 V for 0 to rated output voltage Current: 0 to 10 V 10	Output Power	100 W max
Input Voltage	Output Voltage	0 to 50 kV depending on model
Input Current   For the positive or negative to order	Output Current	0 to 20 mA depending on model
Polarity   Positive or negative to order	Input Voltage	+24 VDC (±2 VDC)
Ripple   Course	Input Current	6 A max
Voltage Regulation   Line: < 0.01% for a 10% change in input voltage	Polarity	Positive or negative to order
Load: < 0.1% for 10% to full load  Current Regulation  Line: < 0.01% for a 10% change in input voltage Load: < 0.1% for a 10% change in input voltage Voltage Control  Voltage Control  O to 10 V for 0 to rated output voltage, accuracy ±1% of rated voltage Via remote potentiometer min resistance 9 kΩ Via internal potentiometer  Current Control  O to 10 V for 0 to rated output current, accuracy ±1% of rated voltage Via remote potentiometer Any combination of V and I control may be used  Monitors  Voltage: 0 to 10 V ±1% for 0 to rated output voltage Current: 0 to 10 V ±1% for 0 to rated output current Each monitor has a series output resistor of 1 kΩ  Temperature Coefficient 200 ppm per "C over operating temperature range  Stability  Operating Temperature 0 to 45% (32 to 113*F)  Storage Temperature 0 to 45% (32 to 113*F)  Storage Temperature 20 to 6°C (-4 to 43*F) Humidity 85% max relative humidity non-condensing  Altitude Sea level to 2000 m (6500*)  Pollution Degree 2 (BS EN6100-1)  Pollution Degree 2 (BS EN6100-1)  Control The power supply is operated via the 15-way, D-type connector situated on the rear panel. Full control and monitoring functions are available by this method.  Cooling Free convection (no fan)  Protection The units are fully protected against flashover and continuous short circuit (no trip).  EMC The MH100 series meets the requirements of the Low Voltage Directive (LVD), 73/73/EEC by complying with BS EN6100 when it is installed as a component of a system. Basic EMC filtering is provided.  The MH100 series meets the requirements of the Low Voltage Directive (LVD), 73/73/EEC by complying with BS EN6100 when it is installed as a component part of compliant equipment. It is CE marked accordingly.  The MH100 series meets the requirements of the Low Voltage Directive (LVD), 73/73/EEC by complying with BS EN6100 when it is installed as a component part of compliant equipment. It is CE marked accordingly.  The MH100 series meets the requirements of the Low Voltage Directive (LVD), 73/73/EEC by compl	Ripple	< 0.1% peak to peak
Load: < 0.1% for 10% to full load   Line: < 0.01% for a 10% change in input voltage   Load: < 0.1% for a 10% change in input voltage   Load: < 0.1% for 10% to full load	Voltage Regulation	Line: < 0.01% for a 10% change in input voltage
Load: < 0.1% for 10% to full load		Load: < 0.1% for 10% to full load
Voltage Control   Oto 10 V for 0 to rated output voltage, accuracy ±1% of rated voltage   Via remote potentiometer min resistance 9 kΩ   Via internal potentiometer   Via remote potentiometer min resistance 9 kΩ   Via internal potentiometer   Via remote potentiometer min resistance 9 kΩ   Via internal potentiometer   Via remote potentiometer min resistance 9 kΩ   Via internal potentiometer   Any combination of V and I control may be used   Voltage: 0 to 10 V ±1% for 0 to rated output voltage   Current: 0 to 10 V ±1% for 0 to rated output voltage   Current: 0 to 10 V ±1% for 0 to rated output current   Each monitor has a series output resistor of 1 kΩ   Via monitor   Via monitor has a series output resistor of 1 kΩ   Via monitor   Vi	<b>Current Regulation</b>	Line: < 0.01% for a 10% change in input voltage
Via remote potentiometer min resistance 9 kΩ   Via internal potentiometer		Load: < 0.1% for 10% to full load
Via internal potentiometer	Voltage Control	0 to 10 V for 0 to rated output voltage, accuracy ±1% of rated voltage
Current Control       0 to 10 V for 0 to rated output current, accuracy ±1% of rated voltage         Via remote potentiometer May combination of V and I control may be used         Monitors       Voltage: 0 to 10 V ±1% for 0 to rated output voltage         Current: 0 to 10 V ±1% for 0 to rated output current       Each monitor has a series output resistor of 1 kΩ         Temperature Coefficent       200 ppm per °C over operating temperature range         Stability       ±0.1% over an 8 h period after 30 min warmup         Operating Temperature       ±0 to 6°C (-3 to 13°F)         Humidity       85% max relative humidity non-condensing         Altitude       Sea level to 2000 m (6500°)         Installation Category       1 (BS ENG1010-1)         Pollution Degree       2 (BS ENG1010-1)         Control       The power supply is operated via the 15-way, D-type connector situated on the rear panel. Full control and monitoring functions are available by this method.         Cooling       Free convection (no fan)         Protection       The units are fully protected against flashover and continuous short circuit (no trip).         EMC       The MH100 series is intended for installation as a component of a system. Basic EMC filtering is provided.         Safety       The MH100 series meets the requirements of the Low Voltage Directive (LDD), 73/23/EEC by complying with BS ENS1010 when it is installed as a component part of compliant equipment. It is CE marked accordingly.		Via remote potentiometer min resistance 9 k $\Omega$
Via remote potentiometer min resistance 9 kΩ   Via internal potentiometer		Via internal potentiometer
Via internal potentiometer   Any combination of V and I control may be used	<b>Current Control</b>	0 to 10 V for 0 to rated output current, accuracy ±1% of rated voltage
Any combination of V and I control may be used  Monitors  Voltage: 0 to 10 V ±1% for 0 to rated output voltage  Current: 0 to 10 V ±1% for 0 to rated output current  Each monitor has a series output resistor of 1 kΩ  Temperature Coefficent  200 ppm per °C over operating temperature range  Stability  40.1% over an 8 h period after 30 min warmup  Operating Temperature  -20 to 6°C (-2 to 43°F)  Storage Temperature  -20 to 6°C (-4 to 43°F)  Humidity  85% max relative humidity non-condensing  Altitude  Sea level to 2000 m (6500')  Installation Category  Pollution Degree  2 (BS EN61010-1)  Control  The power supply is operated via the 15-way, D-type connector situated on the rear panel. Full control and monitoring functions are available by this method.  Cooling  Free convection (no fan)  Protection  The units are fully protected against flashover and continuous short circuit (no trip).  EMC  The MH100 series is intended for installation as a component of a system. Basic EMC filtering is provided.  Safety  The MH100 series meets the requirements of the Low Voltage Directive (LVD), 73/23/EEC by complying with BS EN61010 when it is installed as a component part of compliant equipment. It is CE marked accordingly.  RoHS  The MH100 is currently built to non-RoHS standard. This unit can, however, be configured to meet the requirements of RoHS where significant customer demand requires it, although please note that this will have an impact on delivery timescales.  Mechanical Specifications  Dimensions		Via remote potentiometer min resistance 9 k $\Omega$
Monitors       Voltage: 0 to 10 V ±1% for 0 to rated output voltage         Current: 0 to 10 V ±1% for 0 to rated output current         Each monitor has a series output resistor of 1 kΩ         Temperature Coefficent       200 ppm per °C over operating temperature range         Stability       ±0.1% over an 8 h period after 30 min warmup         Operating Temperature       0 to 45°C (32 to 113°F)         Storage Temperature       -20 to 6°C (-4 to 43°F)         Humidity       85% max relative humidity non-condensing         Altitude       Sea level to 2000 m (6500°)         Installation Category       1 (BS EN61010-1)         Pollution Degree       2 (BS EN61010-1)         Control       The power supply is operated via the 15-way, D-type connector situated on the rear panel. Full control and monitoring functions are available by this method.         Cooling       Free convection (no fan)         Protection       The units are fully protected against flashover and continuous short circuit (no trip).         EMC       The MH100 series is intended for installation as a component of a system. Basic EMC filtering is provided.         Safety       The MH100 series meets the requirements of the Low Voltage Directive (LVD), 73/23/EEC by complying with BS EN61010 when it is installed as a component part of compliant equipment. It is CE marked accordingly.         RoHS       The MH100 is currently built to non-RoHS standard. This unit can, however,		Via internal potentiometer
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	Mechanical Specifications	
Weight 3 kg (6.6 lb)	Dimensions	See drawing
	Weight	3 kg (6.6 lb)

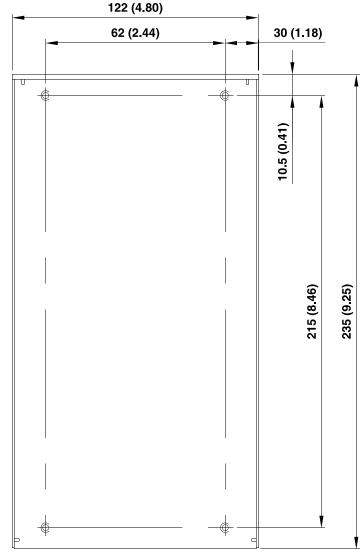


INTERFACE CONNECTIONS		
Input	4 W Molex Minifit 5569	
	Pins 1 and 2 0 V, 3 and 4 +24 V	
Safety Earth	M5 stud	
HV Output	50 kV unit has 'poke home' connector	

Control interface via a 15-way, female D-type connector:







M4 x 8 DEEP FIXING HOLES

### **VIEW ON BOTTOM OF UNIT**

Drawing dimensions are in mm (inches)



These component power supplies meet the requirements of EC Directive 73/23/EEC (LVD).

OUTPUT AND ORDERING INFORMATION				
Model	Output Voltage	Output Current		
MH100/502*	5 kV	20 mA		
MH100/103*	10 kV	10 mA		
MH100/253*	25 kV	4 mA		
MH100/303*	30 kV	3.3 mA		
MH100/403*	40 kV	2.5 mA		
MH100/503*	50 kV	2 mA		

<sup>\*</sup> Please add the required suffix or suffices to the model number:

PorN	Positive or negative polarity
S	Screened HV cable only
Α	Front HV cable exit
В	Rear HV cable exit (not available on MH100/503)

e.g.: part number for a 50 kV positive unit with screened cable: MH100/503PS

For voltages not listed above, please contact our sales team.

If required, this unit can be configured to meet the requirements of RoHS providing a significant quantity is ordered.

Accessories	
33400206-00	MH100 1M HV Cable
33400206-01	MH100 3M HV Cable
33400206-02	MH100 5M HV Cable



For international contact information, visit advanced-energy.com.

ENG-HV-MH100-230-01 7.17