

MK Series 75 Watt

Regulated High Voltage DC Modules

Medium Power Premium Performance...

Low Cost

Fully compliant with the European harmonized EMI directive, EN50082-2, and with the low voltage (safety) directive, 73/23/EEC.

Line harmonics are within the European harmonized standard, EN61000-3-2 specifications.



Models from 0-1kVDC through 0-60kVDC; weight <11 lbs. (Shown with and without optional input voltage selector switch.)

Features:

Current Regulation Unequalled in a Module of This Price Range.

For example, the regulation from short circuit to rated voltage for the 15kV, 5mA model is +2.5 microamperes.

Glassman's "Air Insulated" designs are completely serviceable; this module is not an epoxy block "throw-away."

AC Power "ON" Indicator

Standard Accessories. Detachable 8' shielded output cable, mating control connector and line cord.

Constant Voltage/Current Operation -Standard

Low Stored Energy. Less than 800 millijoules for most models.

YY1 Option: 115/230VAC selectable input; switch located on front panel for setting appropriate mains input.

"Multi-Mode" operation permits maximum user flexibility.

- Local voltage or current control user selectable.
- Remote voltage and/or current control via 0 - +10 volt signal.
- Remote voltage and/or current control via potentiometers.

Protection: Overload, short circuit, and arc protection is provided by automatic current regulation and by careful surge limiting design.

External Interlock Terminals

TTL Enable/Disable

Warranty. Standard power supplies are warranted for three years; OEM and modified power supplies are warranted for one year. A formal warranty statement is available.



Designing Solutions for High Voltage Power Supply Applications

GLASSMAN HIGH VOLTAGE INC.

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Specifications

(From 5% to 100% Rated Voltage. All units operate down to zero output with very slight degradation of performance.)

Input: 105-125V RMS, 48-420Hz single phase, less than 1.5 amperes. Input connector per IEC 320, with mating line cord, provided.

Efficiency: Better than 75% at full load.

Output: Continuous, stable adjustment, from 0 to rated voltage or current by panel mounted 10-turn potentiometer with 0.05% resolution, or by external 0 to 10V signals is provided. Linearity is <1% of rated. Accuracy is 1% of rated + 1% of setting. Repeatability is <0.1% of rated.

Stored Energy: 10kV model, 200 millijoules; 50kV model, 1 joule.

Voltage Regulation: Better than 0.005% + 1mV/mA, line and load.

Ripple: Better than 0.03% RMS of rated voltage +0.5V at full load.

Current Regulation: Better than 0.05% from short circuit to rated voltage at any load condition.

Voltage Monitor: Zero to + 10V DC signal is provided for zero to rated voltage. Accuracy, 1% of reading + 1% of rated voltage.

Current Monitor: Zero to + 10V DC signal is provided for zero to rated current. Accuracy, 1% of reading +0.05% of rated current.

Stability: 0.01% per hour after 1/2 hour warm-up. 0.05% per 8 hours.

Voltage Rise/Decay Time Constant: Using either the HV on/off or remote voltage control, with a 75% load, the output voltage will rise or decay with a typical time constant of 50 milliseconds (100mS maximum).

Temperature Coefficient: 0.01% per degree C.

Ambient Temperature: - 20 degree C to + 60 degree C, operating; -40 degree C to + 85 degree C storage.

Polarity: Available with either positive or negative polarity with respect to chassis ground.

Protection: Automatic current regulation protects the power supply against all overload conditions, including arcs and short circuits. Fuses, surge limiting resistors, and low energy components provide the ultimate protection.

AC Power "ON" Indicator.

Accessories: Detachable 8' shielded output cable (see Models chart for cable type), mating control connector, and line cord.

Remote Controls: A DB25S D-subminiature connector and mating plug are provided for all control input

functions. These include common, + 10 volt reference, interlock, current monitor, current program, voltage monitor, voltage program, TTL, ground, and local control.

External Interlock: Open off, closed on.

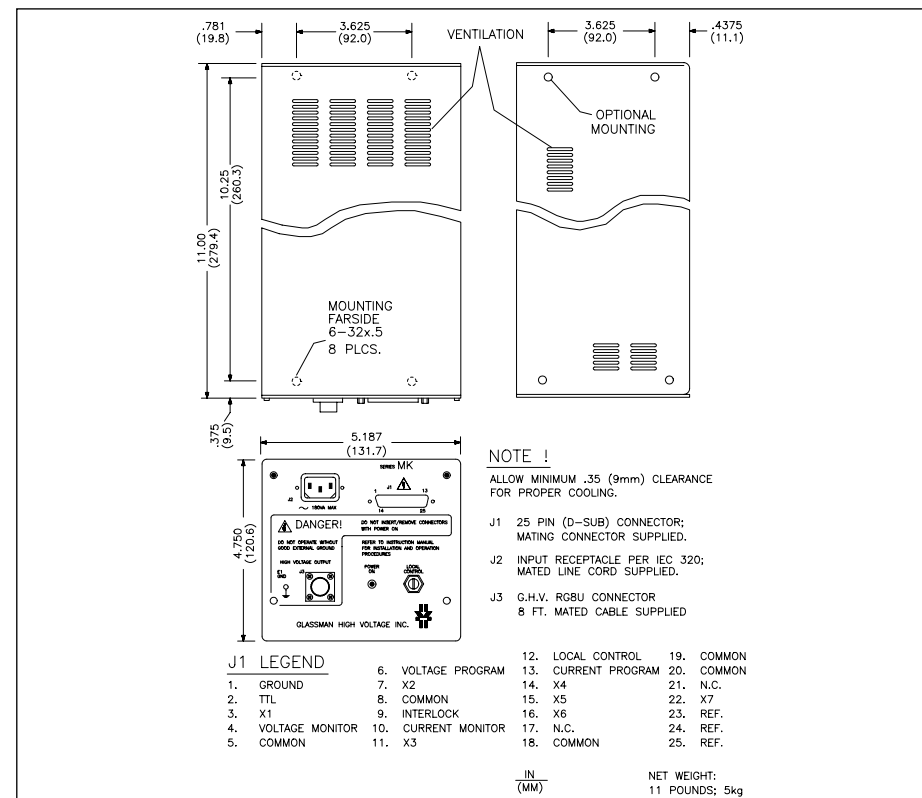
HV Enable/Disable: 0 to 1.5V off, 2.5 – 15V on.

Options

Symbol	Description
220	220 Volt Input: rated for 210 to 250 volts RMS. 48-420 Hz.
100	100 Volt input: rated for 90 to 110 volts RMS. 48-420 Hz.
YY1	115/230 VAC selectable input; switch located on front panel.

Models

Positive Polarity	Negative Polarity	Output Voltage	Output Current	Output Cable
MK1P75L	MK1N75L	0-1kV	0-75mA	RG-59
MK1.5P50L	MK1.5N50L	0-1.5kV	0-50mA	RG-59
MK2P37.5L	MK2N37.5L	0-2kV	0-37.5mA	RG-59
MK3P25L	MK3N25L	0-3kV	0-25mA	RG-59
MK5P15L	MK5N15L	0-5kV	0-15mA	RG-59
MK10P7.5	MK10N7.5	0-10kV	0-7.5mA	RG-8U
MK15P5	MK15N5	0-15kV	0-5mA	RG-8U
MK20P3.7	MK20N3.7	0-20kV	0-3.7mA	RG-8U
MK25P3	MK25N3	0-25kV	0-3mA	RG-8U
MK30P2.5	MK30N2.5	0-30kV	0-2.5mA	RG-8U
MK35P2	MK35N2	0-35kV	0-2mA	RG-8U
MK40P1.8	MK40N1.8	0-40kV	0-1.8mA	RG-8U
MK50P1.5	MK50N1.5	0-50kV	0-1.5mA	RG-8U
MK60P1.2	MK60N1.2	0-60kV	0-1.2mA	RG-8U



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