

EHQ

HIGH PRECISION SINGLE CHANNEL HIGH VOLTAGE MODULE

- ▶ 1 channel, 2 / 3 / 4 / 5 kV and customized versions
- ▶ LCD for voltage and current display
- ▶ Switchable polarity
- ▶ Very low ripple and noise
- ▶ Front panel control with highly precise 10-turn potentiometer
- ▶ Hardware voltage and current limits with 10 % steps
- ▶ USB, RS232, CAN interfaces
- ▶ Programmable parameters (current trip, voltage ramp etc.)



The established EHQ single channel HV module is cased in compact iseg MME-system (Eurocard format). EHQ series HV supplies are front panel controllable with a precise 10-turn potentiometer for voltage setting and a LCD to display voltage or current. For remote control EHQ is equipped with many interfaces (USB, RS232, CAN, optional analog I/O). The voltage ramp is hardware fixed and can be changed in remote operation. The high voltage output is short circuit and overload protected, an INHIBIT input over external digital signal switches the HV off.

SPECIFICATIONS

	EHQ STANDARD
Polarity	switchable
Ripple and noise	< 2 - 5mV _{p-p}
Stability	< 5 • 10 ⁻⁵ • V _{nom}
Temperature coefficient	< 50 ppm / K
Resolution voltage measurement	1 V
Resolution current measurement	1µA 100 nA (option L)
Accuracy voltage measurement *	± (0.05 % • V _{out} + 0.02 % • V _{nom} + 1 digit)
Accuracy current measurement *	± (0.05 % • I _{out} + 0.02 % • I _{nom} + 1 digit)
Voltage ramp hardware	500 V / s
Voltage ramp software	2 - 255 V / s
Protection	INHIBIT, short circuit, overload
HV connector	SHV
Case	3U cassette, width 8 HP

^{*)} All specifications guaranteed from 1% • V_{nom} < V_{out} < V_{nom}

CONFIGURATIONS

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE AND NOISE
EHQ 102M	2 kV	6 mA	2 mV _{p-p}
EHQ 103M	3 kV	4 mA	2 mV _{p-p}
EHQ 104M	4 kV	3 mA	2 mV _{p-p}
EHQ 105M	5 kV	2 mA	5 mV _{p-p}

Other configurations on request!

OPTIONS & ORDER INFO

OPTION	ORDER INFO	EXAMPLE
Analog I/O	AIO	
LOW OUTPUT CURRENT	L (100 µA)	
12V SUPPLY	±12V = N12	