

SHQ

High Precision HV Desk Top PS

Description

The SHQ range is ideal for applications where precision and stability are paramount. Both single and dual channel versions are built into a compact desktop case. If a dual output unit is required both channels can be independently adjusted up to the unit's maximum power. The 6 digit display has 2 ranges which provide excellent standard resolution that can be further improved to 10 μ A and 100pA. The HV output can be held or enabled and the polarity switched from the front panel. Full remote control is offered via RS232 or CAN interface. The voltage ramp up time is programmable over the interface. Special versions are available on request for resistance/isolation measurements and Piezo testing.



- Available in 1 or 2 independent channel versions
- Full remote control via RS232 or CAN interface
- Constant precise voltage, low ripple & noise
- Simultaneous display of voltage & current
- Switchable polarity

Selection Table

Part Number	Maximum Power (Each Channel)	Output Voltage	Output Current	Interface Type	Number of Channels
SHQ 122M	12W	0 - 2 kV	0 - 6 mA	RS232	Single
SHQ 142M	12W	0 - 2 kV	0 - 6 mA	CAN	Single
SHQ 222M	12W	0 - 2 kV	0 - 6 mA	RS232	Dual
SHQ 242M	12W	0 - 2 kV	0 - 6 mA	CAN	Dual
SHQ 124M	12W	0 - 4 kV	0 - 3 mA	RS232	Single
SHQ 144M	12W	0 - 4 kV	0 - 3 mA	CAN	Single
SHQ 224M	12W	0 - 4 kV	0 - 3 mA	RS232	Dual
SHQ 244M	12W	0 - 4 kV	0 - 3 mA	CAN	Dual
SHQ 126L	6W	0 - 6 kV	0 - 1 mA	RS232	Single
SHQ 146L	6W	0 - 6 kV	0 - 1 mA	CAN	Single
SHQ 226L	6W	0 - 6 kV	0 - 1 mA	RS232	Dual
SHQ 246L	6W	0 - 6 kV	0 - 1 mA	CAN	Dual

Different output ranges and application/user specific options are possible. Please contact ET to discuss your requirements.



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Technical Data

Ripple & noise.....	Typical 2mV _{pp} (Max 5mV _{pp})
Resolution of voltage measurement.....	100mV (optional 10mV up to 4kV)
Current measurement (range 1).....	I _{NOM} mA, resolution 100nA both display & interface
Current measurement (range 2).....	100 µA, resolution 1nA both display & interface (/ON1 cannot exceed 100µA)
Current measurement (option range 2).....	10 µA resolution, both display & interface (/ON1 cannot exceed 10µA)
Display.....	6 digit LCD display/2 Ranges
Voltage measurement accuracy.....	± (0.05% V _o + 0.02% V _{o,max}) for one year
Current measurement accuracy.....	± (0.1% I _o + 0.02% I _{o,max}) for one year
Stability (?V _o /?V _{IN}).....	< 3 x 10 ⁻⁵ x V _{NOM}
Stability 100 0 100% (?V _o).....	< 5 x 10 ⁻⁵ x V _{NOM}
Temperature coefficient.....	< 3 x 10 ⁻⁵ /K
Operating temperature.....	0 - 50° C
Voltage setting.....	Switchable between front panel or interface (RS232 or CAN)
Ramp speed at (HV On/Off) (manual).....	Hardware ramp 500 V/s
Ramp speed at (interface).....	Software ramp 2 - 255V/s
Protection.....	Separate current and voltage limit, EXINHIBIT, programmable current trip
Power Requirements.....	230VAC (wide input option)
Output polarity.....	Switchable
Dimensions.....	100 x 236 x 320mm (H x W x D)

Options Table

Code	Description
/ON1.....	Second current range 10µA with resolution of 100pA (Available in all models)
/VHR.....	Voltage measurement resolution: 10mV up to 4kV (setting ? 2kV = 30mV / ? 4kV = 80mV)
/IWP.....	10 turn potentiometer for current limit setting
/ACW.....	95 - 265VAC wide input

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High Precision High Voltage Desk Top Power Supply

