

HTP-SHQ

DUAL CHANNEL DESKTOP PSU



POSITIVE PROBLEM SOLVING **+ =**

The HTP-SHQ range is ideal for applications where precision and stability are paramount.
The dual channel PSU is built into a compact desktop case.

Both channels can be independently adjusted up to the unit's maximum power. The HV output can be held or enabled and the output polarity switched from the front panel. The 6 digit display has 2 ranges which provide excellent resolution of 100pA in the lower range. The recessed 10 position limit switches are ideal for sensitive loads allowing the user to set additional protection against excess voltage and current.

- + Constant Precise Voltage, Low Ripple & Noise
- + Simultaneous Display of Voltage & Current
- + Full Remote Control via CAN Interface
- + Two Independent Output Channels
- + Switchable Output Polarity

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FURTHER DETAILS

If the 'kill enable' function is selected the output is automatically shut down if the preset current is reached. Alternatively, if the 'kill' feature is left inactive and the HTP-SHQ reaches its current limit the output will continue to be provided.

External triggering of the inhibit function is also provided. Full remote control is offered via a CAN interface. The voltage ramp time is programmable over the interface.

SELECTION TABLE

Part Number	Max. Power	Output Voltage Range	Output Current Range	Interface Type	Number of Channels
HTP-SHQ 244M	12W	0 - 4kV	0 - 3mA	CAN	Dual

TECHNICAL DATA

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Ripple & Noise	2mV _{p-p}
Resolution of Voltage Measurement	100mV
Current Measurement [Range 1]	I _{NOM} mA, resolution = 100nA both display & interface
Current Measurement [Range 2]	10 μA resolution = 100pA, both display & interface
Display	6 digit LCD display/2 Ranges
Voltage Measurement Accuracy	± [0.05% VO + 0.02% V _{NOM}] for one year
Current Measurement Accuracy	± [0.05% IO + 0.02% of range] for one year
Stability [ΔV _O /ΔV _{IN}]	< 3 × 10 ⁻⁵ × V _{NOM}
Stability Load to no Load [ΔV _O]	< 5 × 10 ⁻⁵ × V _{NOM}
Temperature Coefficient	< 3 × 10 ⁻⁵ /K
Operating Temperature	0 - 50°C
Voltage Setting	Switchable between front panel or CAN interface
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
Supply Voltage	100 - 240VAC
Output Polarity	Switchable
Dimensions	100 × 236 × 320mm [H × W × D]

Every effort is made to ensure that the information provided within this technical summary is accurate. However, ETPS Ltd must reserve the right to make changes to the published specifications without prior notice. Where certain operating parameters are critical for your application we advise that they be confirmed at the time of order. ETPS Ltd specialises in modifying its proven platforms to suit your needs. Please contact our office if your requirement is non-standard. Please note that your actual unit may differ from those shown.



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