

DS5 Isolated Bipolar Constant Current Stimulator

Technical Specifications

Output:	Bipolar constant current proportional to the input voltage
Output Ranges:	± 10 ; ± 25 ; ± 50 mA for a full scale input
Input Ranges:	± 1 ; ± 2.5 ; ± 5 ; ± 10 V full scale
Connections:	Output - 4mm shrouded, touch-proof sockets (red and black) on 3/4" centres Monitors - Rear panel BNC sockets for "delivered current" and "applied voltage" Input - Rear panel BNC socket Firmware Update - USB socket on rear panel
Controls:	Four front panel push buttons labelled on LCD Output - On/Off-Reset
Safety Limits:	50mJ/300mJ pulse energy 50 μ A average "idle" current 10mA average pulse current 50mA peak current 1s/5s maximum pulse duration
Indicators:	Power ON LED Green Warning LED Amber LCD Display for setting up and checking: <ul style="list-style-type: none">- Peak current delivered *- Output current range- Error warnings- Pulse energy (PE)- Average idle current (AvL)- Input voltage range- Peak Voltage*- Out of compliance- Pulse duration (PD)- Average pulse current (AvH)
Software:	Microsoft Windows™ compatible USB Software (WinXP onwards)
Power:	100V, 120V, 200V or 240V (externally selected), 47-63Hz, 35VA
Classification:	Class I with Type BF applied part
Safety:	EN(IEC) 60601
Dimensions:	225 x 100 x 255 (w x h x d)
Weight:	4kg (approx.)

* These values are displayed graphically NOT numerically

Suggested Further Reading:

Hugh Bostock, Katia Cikurel & David Burke (1998) Threshold tracking techniques in the study of human peripheral nerve. *Muscle & Nerve*, **21**: 137 - 158.

Matthew C. Kiernan, David Burke, Kjeld V. Andersen & Hugh Bostock (2000) Multiple measures of excitability: A new approach in clinical testing. *Muscle & Nerve*, **23**: 399 - 409.

Cindy S.-Y. Lin, Jane H. L. Chan, Emmanuel Pierrot-Deseilligny & David Burke (2002) Excitability of human muscle afferents studied using threshold tracking of the H reflex. *J. Physiol.*, **545**: 661 - 669.