

HiClamp

Technical Specifications

General

| | |
|------------------------|----------------------------------|
| Operating temperature | 10 °C to 50 °C |
| Storage temperature | 0 °C to 70 °C |
| Dimensions (W x D x H) | 640 mm x 600 mm x 440 mm |
| Weight | 47 kg |
| Power | 230 VAC @ 50 Hz, 115 VAC @ 60 Hz |

Amplifier

| | |
|-----------------------|---|
| Type | Integrated TEVC amplifier |
| Operation | Fully automatic and computer controlled |
| Reference electrodes | Two independent active bath clamps |
| Maximal sampling rate | 20 kHz |
| Data resolution | 16 bit |

Current electrode output

| | |
|---|------------------------------|
| Output range | -105 μ A to +105 μ A |
| Effective current resolution, 0 – 100 μ A | 1 nA |
| Voltage range | -100 V to +100 V |

Voltage electrode input

| | |
|---|--------------------|
| Input range | -500 mV to +500 mV |
| Voltage resolution | 0.015 mV |
| Clamp voltage setpoint range | -500 mV to +500 mV |
| Clamp voltage setpoint resolution | 1 mV |
| Typical rise time in voltage clamp mode | < 1 ms |

Software

| | |
|----------------------------|---|
| HiClamp software | DataMining and DataMerger software |
| Connection to the computer | USB 2.0 High Speed |
| Operation system | Microsoft Windows ® 8.1 and 7 or XP with NTFS (32 or 64 Bit), English version supported |