



POTENTIOSTAT / GALVANOSTAT / ZRA SPECIFICATIONS*

| | Interface 5000P | Interface 5000E |
|---------------------------------------------|------------------------------------------|------------------------------------------|
| SYSTEM | | |
| Cell Connections | 2, 3, 4 or 5 | 2, 3, 4 or 5 |
| Maximum Current | ± 5 A | ± 5 A |
| Current Ranges | 6 (50 µA - 5 A) | 6 (50 µA - 5 A) |
| Current Ranges (including internal gain) | 8 | 8 |
| Minimum Current Resolution | 150 pA | 150 pA |
| Maximum Applied Potential | ± 6 V | ± 6 V |
| Rise Time | < 1 µs | < 1 µs |
| Minimum Timebase | 10 µs | 10 µs |
| Noise and Ripple (typical) | < 20 µV rms | < 20 µV rms |
| CONTROL AMPLIFIER | | |
| Compliance | ±8.5 / ±2.5 | ±8.5 / ±2.5 |
| Output Current | > ± 5 A | > ± 5 A |
| Speed Settings | 5 | 5 |
| Unity Gain Bandwidth | 1050, 250, 434, 4.4, 0.5 kHz | 1050, 250, 434, 4.4, 0.5 kHz |
| EIS MEASUREMENT | | |
| EIS | 10 µHz - 20 kHz † | 10 µHz - 1 MHz |
| Current AC Amplitude | ± 5 A max | ± 5 A max |
| ELECTROMETER | | |
| Input Impedance | > 10 ¹² Ω < 2 pF | > 10 ¹² Ω < 2 pF |
| Input Current (typical) | < 25 pA | < 25 pA |
| Bandwidth | > 10 MHz | > 10 MHz |
| CMR | > 98 dB (10 kHz), > 88 dB (100 kHz) | > 98 dB (10 kHz), > 88 dB (100 kHz) |
| POTENTIAL | | |
| Applied Accuracy | ± 1 mV ± 0.2% of setting | ± 1 mV ± 0.2% of setting |
| Applied Resolution | 200 µV, 50 µV, 12.5 µV/bit | 200 µV, 50 µV, 12.5 µV/bit |
| Measured Accuracy | ± 1 mV ± 0.3% of reading | ± 1 mV ± 0.3% of reading |
| Measured Resolution | 200 µV, 20 µV, 2 µV/bit | 200 µV, 20 µV, 2 µV/bit |
| CURRENT | | |
| Applied/Measured Accuracy | ± 25 pA ± 0.05% of range ± 0.2% of value | ± 25 pA ± 0.05% of range ± 0.2% of value |
| Applied/Measured Resolution | 0.003% full-scale/bit | 0.003% full-scale/bit |
| Bandwidth | > 5 MHz (5 mA) | > 5 MHz (5 mA) |

Selected Specifications* Specifications subject to change. †Galvanostatic only

