

Spécifications :



GAMRY INSTRUMENTS Reference 3000

Potentiostat	Yes
Galvanostat	Yes
Zero Resistance Ammeter	Yes
Floating (Isolated from Earth Ground)	Yes
Cell Connections	2, 3, 4 5 or 21 ⁺
Maximum Current	± 3 A or ± 1.5 A @ 32V
Current Ranges	11 (300 pA – 3 A)
Current Ranges (including internal gain)	13
Minimum Current Resolution	92 aA
Maximum Applied Potential	± 32 V
Rise Time	<250 ns
Minimum Time Base	3.333 μ s
Noise and Ripple (typical)	<2 μ V rms
Weight	7 kg
Dimensions	20 (W) x 23 (H) x 30 (D) cm
CONTROL AMPLIFIER	
Compliance Voltage	± 32 V
Output Current	> ± 3 A

Speed Settings	5
Unity Gain Bandwidth	1100, 330, 50, 5.0, 0.5 kHz
EIS MEASUREMENT	
EIS	10 μ Hz - 1 MHz
EIS Accuracy	See Accuracy Contour Plot
Voltage AC Amplitude	3 V maximum
Current AC Amplitude	3 A maximum
ELECTROMETER	
Input Impedance	$>10^{14} \Omega$ $<0.2 \text{ pF}$
Input Current (typical)	$<6 \text{ pA}$
Bandwidth	$>15 \text{ MHz}$ at - 3 dB
CMRR	$>80 \text{ dB}$ (100 kHz) $>60 \text{ dB}$ (1 MHz)
POTENTIAL	
Applied Accuracy	$\pm 1 \text{ mV} \pm 0.2\%$ of setting
Applied Resolution	12.5 μV , 50 μV , 200 $\mu\text{V/bit}$
Measured Accuracy	$\pm 1 \text{ mV} \pm 0.2\%$ of reading
Measured Resolution	High-Resolution Electrometer: 400 μV , 100 μV , 10 μV , 1 $\mu\text{V/bit}$ High Voltage Electrometer: 1.6 mV, 400 μV , 40 μV , 4 $\mu\text{V/bit}$
CURRENT	
Applied/Measured Accuracy	$\pm 5 \text{ pA} \pm 0.05\%$ of range $\pm 0.2\%$ of value (3 A - 3 nA) or 0.5% of value (300 pA)
Applied/Measured Resolution	0.0033% full-scale/bit
Bandwidth	$>10 \text{ MHz}$ (3 A - 3 mA) $>0.15 \text{ MHz}$ (30 μA)



GAMRY INSTRUMENTS Reference 30K BOOSTER

Dimensions 37 cm W x 23 cm H x 44 cm D
14.5 in. W x 9 in. H x 17.5 in. D

Weight 16 kg (35 pounds)

OPERATION

Modes Potentiostatic, Galvanostatic, ZRA

Agency Approval CE

DC CHARACTERISTICS

Compliance Voltage +20 V, -2.5 V

Output Current ± 30 A

Accuracy $\pm 0.3\%$

Power Dissipation 600 W to + rail
750 W to - rail

AC CHARACTERISTICS

Slew Rate 20 V/ μ S (maximum)

Unity Gain BW (typical) 550 kHz (minimum)