

IviCycle

high channel count battery cycler
with optional impedance capability



19" rack-mountable system

- Affordable high-spec battery test system
- Available as DC or with 20kHz impedance for each channel
- USB / Ethernet interface
- Dedicated battery software
- Available
 - 32 channels: 30mA
 - 32 channels: 200mA
 - Mix & Match per module of 8 channels
- Each channel:
 - Completely independent synchronous parallel operation.
 - Optional dedicated embedded FRA/EIS: 10μHz - 20kHz.
 - 20M datapoints locally stored.
 - Continues operation even if computer fails.

System Performance:	32 channels (in 4 modules of 8 channels)
	(per channel)
Current compliance	±30mA or ±200mA
Maximum output Voltage	±10V
4 Electrodes	WE, CE, RE, S
Potentiostat Bandwidth	>500kHz
Stability settings	High Speed, Standard, High Stability
Signal acquisition	Dual channel 16bit ADC; 100,000 samples/s
Potentiostat:	
Applied potential range	±10V with 0.333mV resolution
Applied potential accuracy	0.2% or 2mV
Current ranges	±10nA to ±100mA
Measured current resolution	0.015% of current range, minimum 1pA
Measured current accuracy	0.2%
Galvanostat:	
Applied current resolution	0.033% of applied current range
Applied current accuracy	0.2%
Potential ranges	±10mV, ±100mV, ±1V, ±10V
Current ranges	±10µA to ±100mA
Measured potential resolution	0.003% of potential range, minimum 0.4µV
Measured potential accuracy	0.2% or 1mV
Optional Impedance Analyser:	(dedicated for each channel)
Frequency range	10µHz to 20kHz
Amplitude	0.15mV to 1.0V or 0.03% to 100% of current range
Electrometer:	
Input impedance	>1000Gohm // <20pF
Input bias current	<20pA
Bandwidth	>5MHz
Special functions:	
DataSecure	Integrated in instrument
Analog input	±10V, 16bit, bandwidth 40kHz
Environment:	
Power	100-240V, 50-60Hz, 300VA
Interfacing	USB, Ethernet
Size	w x d x h = 44 x 26 x 22 cm
Weight	12.5 kg
PC requirements	Windows 8/10, with free USB port