

EVc-40 Specifications

EVc-40 is a NiMH hybrid vehicle battery reconditioner that recovers capacity, power and balances battery pack modules. The EVc-40 simultaneously charge/discharges 40 modules. Current interrupt provides real time monitoring of internal resistance. EVcharge software, free of charge, compares and sorts batteries for incorporation into remanufactured packs. For R&D specialists, the EVc-40 provides high speed square wave analysis for the galvanostatic intermittent titration technique (GITT), or step impedance spectroscopy.

Load	
Max Load Voltage	+12V (Optional +18V)
Max Load Current	5A per channel
Number of channels	40
Applied DC Current Ranges	5A
Applied Current Accuracy	0.5% of Full scale resolution
Applied Current Resolution	0.3 mA
Potential Measurement	
Measured DC Potential Ranges	±20V
Resolution	0.6mV
Accuracy	0.08 or 0.03% of FSR
Current Interrupt (Serial Resistance Measurement)	
Minimum Sampling Interval	4us
Serial Resistance Precision	0.5%
Measurement Logging time	1 second
Step Impedance Spectroscopy	
Maximum Current Amplitude	5A
Minimum Sampling Interval	4us
Minimum Pulse Width	40us
Data Acquisition	
Acquisition Speed	250 kS/s aggregate Distributed over 1 to 40 channels
DAC Resolution	16 bits
Accessories	
Laptop	MS Windows
Cooling box	Accommodates up to 40 modules
Cables	40 cable sets, 11 ft

Physical dimensions and weight

EVC-40: L x W x H: Weight	25" x 20" x 26": 230 lbs
Laptop	5 lbs
Cooling box: L x W x H: Weight	38" x 15" x 6": 20 lbs
40 Cables	40 lbs