

LVc-40 Specifications

All-in-one tool for hybrid battery reconditioning and EV battery diagnosis and repair

Building on the proven NuVant EVc-30, the LVc-40 uses state-of-the-art battery analysis technology for diagnosing and repairing electric (EV) batteries down to the cell level and reconditioning hybrid electric (HEV) batteries down to the module level. Our intuitive software analyzes the testing results, indicates which cells need replacement, and determines which cells to combine for a balanced battery pack.

NuVant LVc technology provides:



Internal resistance



Watt-hour capacity



Amp-hour capacity



Nominal cell voltages



The LVc-40 is built with 40 connection ports, which allows you to recondition more batteries at a faster rate.

The turnkey system includes:

- Built-in computer
- Analysis software & recipes
- Diagnostic plans
- 40 battery connection cables

For EV and HEV batteries:

- Toyota Camry Hybrid
- Toyota Prius Hybrid
- Toyota Prius Prime
- Ford Fusion Hybrid
- Nissan Leaf
- Kia Optima
- Hyundai Sonata
- Ford Fusion Hybrid
- Ford C-Max Hybrid
- Lincoln MKZ Hybrid
- Chevy Malibu
- Buick LaCrosse
- Buick Regal
- Ford C-Max (Plug In)
- Ford Fusion (Plug In)
- Lincoln MKZ (Plug In)
- And Many More!



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Load	
Max Load Voltage	+19 V
Max Charge Current	5 A per channel
Number of Channels	40
Max Discharge Current	5 A per channel
Applied Current Accuracy	0.5% of full scale resolution
Applied Current Resolution	0.3 mA

Potential Measurement	
Measured DC Potential Ranges	+20 V
Resolution	0.6 mV
Accuracy	0.08 or 0.03% of FSR

Current Interrupt (Serial Resistance Measurement)	
Minimum Sampling Interval	4 μ s
Serial Resistance Precision	0.5%
Measurement Logging Time	1 second

Step Impedance Spectroscopy	
Maximum Current Amplitude	5 A
Minimum Sampling Interval	4 μ s
Minimum Pulse Width	40 μ s

Data Acquisition	
Acquisition Speed	500 kS/s aggregate distributed over 1 to 30 channels
DAC Resolution	16 bits

Accessories	
Built-In PC	MS Windows
Cooling Box	accommodates up to 40 modules
Cables	40-cable set, 7 ft each

Physical Dimensions and Weight	
LVC-40: L x W x H: Weight	35" x 18" x 26": 180 lbs
Cooling Box: L x W x H: Weight	38" x 15" x 6": 20 lbs
40 Cables	40 lbs

By combining our battery expertise with precision testing and electronics, NuVant has built a dependable, high-quality product for the next-generation of electric vehicles!

Key Benefits:

- The LVC-40 services a wide variety of EV and plug-in hybrid vehicles
- Connect up to 40 cells/modules at a time
- Two modes of function:
 - Operator – easily connect and run cell diagnostics
 - Manager – analyze diagnostic data and choose cells for balanced pack
- Front panel LCD display shows cell diagnostic progress



Won the "Green Good Design" award, presented by The European Centre for Architecture Art Design and Urban Studies and The Chicago Athenaeum: Museum of Architecture and Design.