d-40 Specifications

Hybrid vehicle battery Power Test equipment

The EVd-40 Power Test is a pre- and post-reconditioning tool for quality control of aftermarket electric constant voltage (CV) and complex mixed mode constant current - constant voltage (CCCV) charging protocols at voltages up to 600 V. This enables recharge of any type of rechargeable battery.



The EVd-40 can discharge batteries at high power (10,000 watts). **A Prius battery subjected to this** discharge power will exceed initial currents of 40 amps.

Pre-reconditioning screening:

In-coming cores can be connected to the EVd-40 and charged to pre-set voltages. A core is then subjected to high power discharge to identify weak modules prior to subjecting the pack to EVc-30 reconditioning.

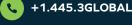
The system includes:

- software configured laptop computer (USB connection to EVd unit)
- software upgrades

Compatible hybrid battery vehicles:

- Toyota Camry
- Toyota Prius (and Prius C)
- Toyota Avalon
- Toyota Highlander
- GM Tahoe
- GM Escalade
- GM Yukon
- *other vehicles (including Li-ion) coming soon





130 North West Street Crown Point, IN 46307



 Lexus CT200H • Lexus GS450H

Lexus GS450H

Lexus RX400H

• Honda Civic

Honda Insiaht

Ford Escape

info@a3global.com



Discharge		
Max Discharge Power	10,000 watts	
Number of voltage sensors	up to 40	

Charge		
Max Charge Power	1560 watts	
Max Charge Voltage	600 V	
Max Charge Current	2.6 A	
Constant Current (CC) Constant Voltage (CV) Indicator		
Additional specs (line regulation, output ripple, noise, etc.)	Can be found at: https://www. programmablepower.com/products	

Voltage Reading		
Measured DC Potential Ranges	0 - 20V	
Resolution	2.6mV	

Data Acquisition	
Minimum Sampling Interval	150 ms
DAC Resolution	13-bit

Accessories	
Laptop	MS Windows
Cables	28-40 module config.

Physical dimensions and weight	
EVd-40: L x W x H: Weight	25″ x 20″ x 30″: 155 lbs
Laptop	5 lbs

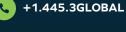
The NuVant mission is to "Bring electrochemistry to the streets." Everyone can learn to use NuVant battery refurbishing equipment.

The EVd-40 is equipped with 40 sensors for measurement of individual module voltages during Power Test discharges. The Power Test tool uses a high voltage harness (sold separately) for monitoring up to 40 Toyota prismatic modules during the high power discharge.

Custom harnesses for individual module monitoring of other batteries can be prepared upon request. Individual module voltage monitoring during high power discharge identifies weak modules that are not identified during lower power battery reconditioning processes.

Note: Because the number of modules (and order of modules) vary per vehicle battery pack, the EVd battery harnesses are not interchangeable. EVd buyers must purchase battery harnesses for their specific battery pack.





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