

Cycle Test

IDCLT PANEL

Charging and discharging cycles with high accuracy



- *High precision and reliability*
- *Equipment customizable according to the customer's need*
- *Renowned for the leading manufacturers and certifying laboratories in Brazil.*
- *It's capable of running tests according to the latest test specifications.*
- *Dedicated board for test execution with non-volatile memory for data recording.*
- *Extra channels to measure voltage and temperature.*
- *Automotive batteries test, motorcycle, stationary, traction, Li-Ion cells, and supercapacitors.*

*iDevices Technology,
accuracy and reliability,
charging and testing your
battery.*



www.idevices.com.br

IDCLT – Cycle Life Tester



The iDCLT was developed to meet the needs of testing laboratories, where accuracy, reliability, and robustness are essential.

The iDCLT equipment is present in main battery manufacturers, test laboratories, and R&D centers in Brazil, becoming the smartest solution for product development and improvement.



KEY FEATURES

- Software IDCLT View – The most modern solution for test management, smart interface, customizable and complete.
- Multiple channels for voltage and temperature monitoring.
- Reliable protection system, many alarms can be configured.
- Parallel mode, where to increase the test current, more than one channel can be assigned to test the same battery or cell.
- Modular construction, one panel can be assembled with different capacity channels.
- Calibration by software.

APPLICATIONS

- Cycle test with a high sampling rate
- Performance tests, (C10, C20, RC...)
- Charging and discharging tests
- Start Stop tests.
- Regenerative systems simulation.
- Charge acceptance tests.
- Water consumption and corrosion tests.
- Formation tests
- EV Drivers simulation.

GENERAL SPECIFICATIONS

- Voltage → 0 up to 100V
 - Current → up to 300A
 - Channels per panel → up to 32
 - Accuracy → $\leq 0,1\% \text{ FS}^*$
 - Slew-Rate → $< 50\text{ms}$
 - Sampling → 100ms
- » Other ranges and specifications can be available on request

*Accuracy values are conservative, considering the standard operation between 0 and 40°C. Units calibrated and maintained in a temperature and humidity controlled (20 to 25°C) can reach an accuracy of the order of 0.05%.



TYPICAL CONFIGURATION

Product Line	Min Voltage (V)	Max Voltage (V)	Voltage Resolution	Max Recharge Current (A)	Max Discharge Current (A)	Current Resolution	Max Power (W)	Sampling
iDCLT-10	0	18	0,5mV	10	10	0,2mA	160	100ms
iDCLT-30	0	18	0,5mV	30	30	0,5mA	480	100ms
iDCLT-60	0	18	0,5mV	60	60	1,0mA	960	100ms
iDCLT-100	0	18	0,5mV	100	100	2,0mA	1600	100ms
iDCLT-EFB	0	18	0,5mV	200	300	5,0mA	4800	100ms
iDCLT-TELECOM	0	64	1,0mV	270	270	5,0mA	9180	100ms

MAIN STANDARDS

