

# BATTERY CHARGE-DISCHARGE CYCLER

Advanced Battery Testing System for Research, Quality Control & Production



## KEY FEATURES



**Multi-Channel High Performance**  
Supports up to 96 channels, expandable for large-scale battery testing.



**High Accuracy & Resolution**  
±0.02% accuracy with high-resolution measurement for reliable results.



**Multiple Operating Modes**  
CC, CV, CC-CV, CP, Pulse, and Cycle Life testing for comprehensive analysis.



**Real-Time Data Logging**  
Records voltage, current, capacity, energy, and cycle data in real time.



**Powerful PC Software**  
User-friendly software for control, graphing, reporting, and data export.



**Reliable & Safe Operation**  
Equipped with multiple protection features for stable and secure long-term testing.

## TECHNICAL SPECIFICATIONS

Parameter	Specification
Application	Testing lithium-ion, sodium-ion, NiMH, NiCd, lead-acid, and supercapacitors
Channels	8, 16, 32, 64, or 96 channels (expandable)
Voltage Range	0 – 5 V per channel (custom models up to 10 V or higher)
Current Range	10 $\mu$ A to 10 A (model dependent)
Voltage Accuracy	±0.02% F.S.
Current Accuracy	±0.02% F.S.
Sampling Interval	≥100 ms
Operating Modes	<ul style="list-style-type: none"> <li>Constant Current (CC)</li> <li>Constant Voltage (CV)</li> <li>CC-CV</li> <li>Constant Power (CP)</li> <li>Pulse Testing</li> <li>Cycle Life Testing</li> </ul>
Data Logging	Real-time voltage, current, capacity, energy, and cycle data
Software	PC-based control with graphing, reporting, and data export
Communication	USB / Ethernet / LAN
Power Supply	220 – 240 V AC, 50 Hz
Operating Temperature	0 – 40 °C
Storage Temperature	-10 – 60 °C
Dimensions (W × D × H)	Model dependent
Net Weight	Model dependent

## TYPICAL APPLICATIONS



Battery Research & Development



Quality Control & Testing



Battery Pack Performance Testing



Cell Matching & Balancing



Supercapacitor Testing



Cycle Life Evaluation

## OPERATING MODES



**CC**  
Constant Current



**CV**  
Constant Voltage



**CC-CV**  
CC-CV Mode



**CP**  
Constant Power



**Pulse**  
Pulse Testing



**Cycle**  
Cycle Life Testing

## SOFTWARE FEATURES



Real-Time Monitoring



Data Graphing & Analysis



Report Generation



Data Export (Excel, CSV, etc.)



Multi-Channel Control



User Management & Security



High Accuracy & Stability



Multi-Channel Expandable



Comprehensive Analysis



Easy to Use Software



Safe & Reliable Operation



Wide Range of Applications

Precision Testing. Reliable Results. Better Batteries.