

SERIES 6000

ADVANCED TESTING PLATFORM



See Things Others Miss



Test your batteries for complex, real-world power demands



1 μ s
PULSE RESOLUTION



20 kHz
SAMPLING

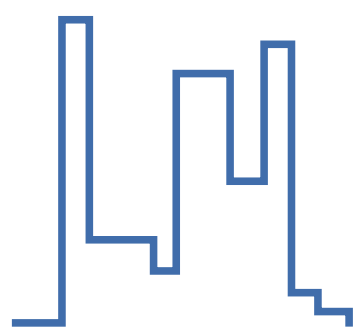


1 ms
STEP TIME



1 kHz
DATA LOGGING

ENGINEERED FOR RESULTS



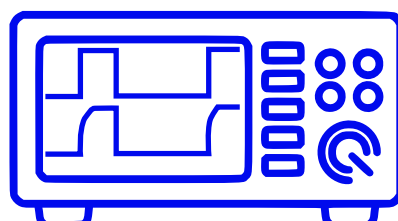
Advanced Multi-Level Pulse

Evaluate battery performance under the real-world conditions demanded by modern electronics



Full-Featured Software Suite

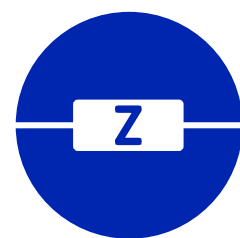
Comprehensive software suite provides real-time monitoring data analysis, and data management



High-Speed Transient Logging

Capture critical battery events with high-speed logging that reveals what conventional data acquisition misses

IDEAL FOR A WIDE RANGE OF APPLICATIONS



PULSE POWER & IMPEDANCE TESTING

Advanced pulse characterization—HPPC, DCIR, and custom sequences—evaluates battery power capability and aging.



MEDICAL DEVICE BATTERY VALIDATION

Simulate the dynamic power demands of medical devices to verify battery runtime, reliability, and performance..



AEROSPACE & DEFENSE MISSION-CRITICAL BATTERIES

Validate batteries under demanding environmental conditions, pulsed communication loads, and mission-critical applications

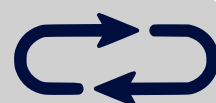


NEXT-GENERATION BATTERY RESEARCH

Test emerging chemistries—lithium-metal, solid-state, sodium-ion, lithium-sulfur—capturing rapid electrochemical events



BACKWARDS COMPATIBILITY PROTECTING YOUR INVESTMENT



Many Maccor test systems can be upgraded to the new Series 6000 Platform, protecting your investment while delivering the latest testing capabilities. Contact sales@maccor.com to determine if your system is compatible. At Maccor, we believe in long-term partnerships, not planned obsolescence. Together, we build better batteries.



ENGINEERED IN THE USA
Built with quality and reliability you can trust



TOMORROW STARTS HERE
Seamlessly supports future chemistries



GLOBAL SUPPORT
Expert support and service around the world



maccor.com



sales@maccor.com



+1 918 446-1874



Made in America

Built to maximize your success
with uncompromising speed, accuracy, and flexibility



SPEED



ACCURACY



FLEXIBILITY

SPECIFICATION	MODEL	6300	6200	6200H	6000	6000H
Maximim Channels		8	16	8	96	96
Maximum Current (Amps)		120	240	200	1,440	2,400
Current Ranges (Multi-Range)		1 or 4	1 or 4	2 or 3	1 or 4	2 or 3
Maximum Power (Watts)		1200	2400	2400	14,400	28,800

TIMING AND CONTROL

Parameter	Specification
Minimum Step Time	500 μs
Variables	50
Global Flags	64
Data Points pec second (System)	96,000
High Speed Sampling - Volatge & Current ¹	20 kHz

ADVANCED MULTI-LEVEL PULSE

Parameter	Specification
Maximum Number of Pulse Level	15,000
Minimum Pulse Width	100 μs
Pulse Width Increment Time	1 μs
Maximum Pulse Width	2 s
Continous Data Record Interval	100 μs

WAVEFORMS

Parameter	Specification
Maximum Number of Level	Unlimited
Minimum Level Width	1 ms
Data Recording	1 ms
High Speed Sampling - Volatge & Current ¹	20 kHz

Advanced Multi-Level Pulse (AML^P)

AML^P technology allows researchers to simulate the complex, fast-transient demands of modern electronics. With up to 15,000 programmable levels, 1 μs timing resolution, and sub-millisecond stabilization, AML^P captures rapid electrochemical dynamics standard testers miss—giving engineers a definitive picture of real-world battery performance and reliability before deployment.

If you can't replicate the application's power demands in the lab, you can't confidently predict how the battery will perform in the field.

50 μs Data Logging

Every recorded data point carries its complete 1 ms history, with voltage and current sampled at 20 kHz. This context-rich capture reveals transient behavior and fault signatures that single-point measurements miss entirely – enabling root-cause analysis that's simply impossible with traditional snapshot-based recording

¹The system samples voltage and current at 20 kHz, capturing 20 readings per millisecond for each data point.