SERIES 6000

ADVANCED TESTING PLATFORM

See Things Others Miss

Test your batteries for complex, real-world power demands

MACCOR

1 µs 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

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.**

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-CRTITAL 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

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

TOMORROW STARTS HERE
Seemlessly supports future chemistries

GLOBAL SUPPORT
Expert support and service around the world

maccor.com

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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 (AMLP)

AMLP 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, AMLP 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

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