

POWER MEETS PRECISION.

FUSION SERIES



The FUSION Series is a fully integrated all-in-one battery testing solution that combines advanced environmental chambers with high-precision battery cyclers.

All-in-one

Battery testing solution.



Up to 90%

Return-to-grid efficiency.

Scalable

Configurations



Up to 3,200A



Product Specifications

Configuration	FUSION-24-016-3200	FUSION-12-008-1600	FUSION-08-192-0192	FUSION-08-064-0960
Testing Space	25.96 CU.FT / 733.4 L	12.95 CU.FT / 366.7 L	8 cu.ft / 226.53 L	8 CU.FT / 226.53 L
Temperature Range	-20°C TO 80°C	-20°C TO 80°C	-20°C TO 80°C	-20°C TO 80°C
Temperature Stability	±0.5°C	±0.5°C	±0.5°C	±0.5°C
IEC Rise Rate	5°C/min	55°C/min	5°C/min	5°C/min
IEC Pull Down Rate	5°C/min	5°C/min	4°C/min	4°C/min
Channel Count	16	8	192	64
Channel Current	200A	200A	1A	15A
Channel Voltage	0 to 5 V	0 to 5 V	-5 to 5 V	-5 to 5 V
Current Range	Single Range	Single Range	4 Ranges	4 Ranges
Min Control Current	1A	1A	2uA	30uA
Discharge Voltage	0 V	0 V	0 V	0 V
Cooling	Air cooled	Air cooled	Air cooled	Air cooled
Current Accuracy	±0.025% FS	±0.025% FS	±0.02% FS	±0.01% FS
Voltage Accuracy	±0.02% FS	±0.02% FS	±0.02% FS	±0.02% FS
Resolution	16 BIT	16 BIT	16 BIT	16 BIT
Rise Time	< 2 ms	< 2 ms	< 100 uSec	< 100 uSec
Return-to-grid Efficiency	up to 90%	up to 90%	-	-

POWER MEETS PRECISION.

FUSION SERIES



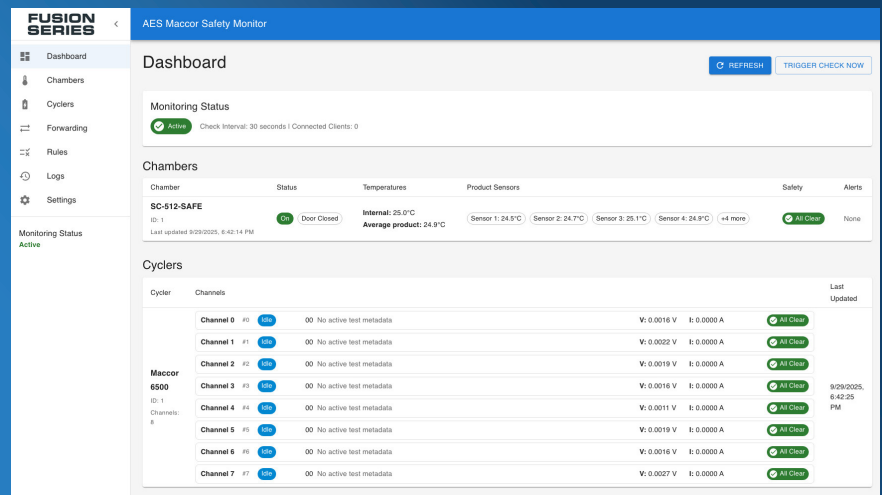
Product Overview

Designed specifically for battery research, validation, and production testing, the series delivers seamless control of thermal conditions and cycling operations in one system. With exceptional temperature stability, high-current capability, and built-in safety features, the FUSION Series sets a new benchmark for accuracy, safety, and efficiency in battery testing.

Communication

One Interface. Total Control.

Preloaded with a unified software suite. This single platform manages chamber conditions, cycling operations, safety parameters, and test data—providing a streamlined workflow for programming, monitoring, and analyzing results in real time.



Test Ready

Effortless Intergration.

The FUSION Series arrives fully assembled, pre-connected, and ready to use. By unifying the chamber, fixturing, and cycling into a single product, setup time is dramatically reduced—no extra wiring, no compatibility concerns, no multiple purchase orders. With one system and one interface, customers can begin testing faster, streamline procurement, and eliminate integration headaches.

Safety

Effortless Intergration.

Built-in protection systems safeguard both operators and equipment during every test. The FUSION Series incorporates chamber interlocks, emergency shutoffs, and monitored test connections to ensure safe handling of high-current applications. Integrated fixtures keep cabling organized and secure, minimizing risk while maximizing reliability. Safety is engineered into every layer, so users can test with confidence.

15 Wellman Ave, North Chelmsford,
MA, USA, 01863

4322 South 49th W Ave Tulsa, OK
USA 74107

978 772 0022

sales@associatedenvironmentalsystems.com

www.associatedenvironmentalsystems.com

918 446 1874

sales@maccor.com

www.maccor.com