

MACCOR

Model 1205A Cell Balancer

Intelligent Active Cell Balancing



 **0 - 1000 mA**
CURRENT PER POSITION

 **0 - 5 V**
CELL VOLTAGE RANGE

 **8 CELLS**
PER UNIT
EXPANDABLE IN SERIES

 **JSON-RPC 2.0**
Protocol over Integrated Ethernet

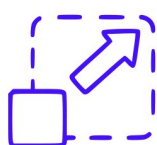
Simultaneously charge and discharge individual cells to achieve precise pack balancing. Seamlessly integrates with Maccor battery test systems or operates independently through Ethernet-based control.

ENGINEERED FOR RESULTS



Precision Cell Balancing

Charge and discharge individual cells independently within a string



Salable Architecture

Series multiple units for larger battery packs



Integrated Control

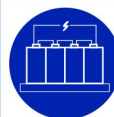
Fully integrated into BuildTest and MacTest or run stand-alone



Set Up Anywhere

Ethernet Connection allows you to install near your battery

IDEAL FOR A WIDE RANGE OF APPLICATIONS



BATTERY PACK RESEARCH

Characterize battery packs while maintaining cell balance during cycling



SAFETY

Prevent Thermal Runaway & Accelerated Degradation



PACK CONDITIONING

Restore balance to assembled battery packs



RECYCLING

Second-Life Battery Re-purposing



BMS BALANCING ALGORITHM

Validate BMS balancing algorithms against an independent system.

The Maccor Model 1205A Cell Balancer is designed for seamless, high-accuracy balancing of multi-cell battery packs. Controlled via standard LAN network connections or directly integrated into the Maccor software suite, the 1205A can charge and discharge individual cells within a pack simultaneously. Multiple balancers can be synchronized on the same network to support battery packs exceeding 8 cells.



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

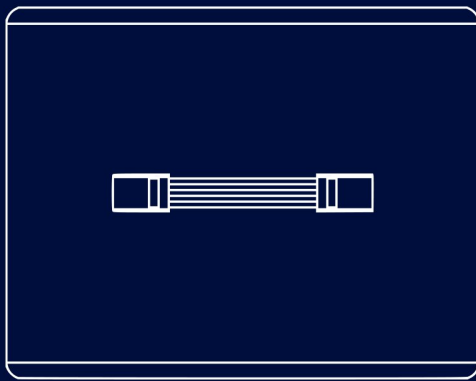


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Made in America

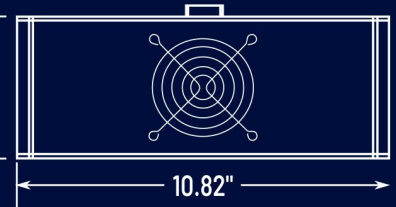
TOP



FRONT



SIDE



CHANNEL SPECIFICATIONS

Parameter	Specification
Channel Voltage Range	0 to 5 VDC
Channel Current Range	0 to 1000 mA
Minimum Current Resolution	1 mA
Voltage Setpoint Tolerance	1 mV
Maximum Cells / unit	8

TIMING AND CONTROL

Parameter	Specification
Communication Protocol	Ethernet LAN using JSON-RPC 2.0
Sample Time	1 second minimum (configurable)
Finish Settlement Time	User defined settling window
Safety Timeout	User-programmable procedure time limit

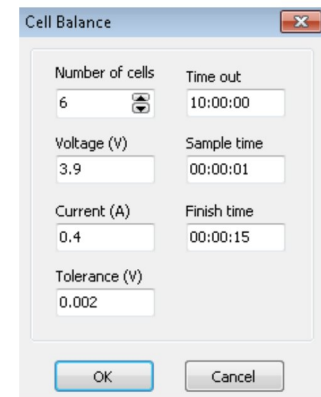
POWER & SYSTEM

Parameter	Specification
AC Input	115 or 230 VAC, 1Ø, 50/60 Hz
Over-Current Protection	In-line fuse per channel
Operating Temperature	59°F to 85°F (15°C to 30°C)
Operating Humidity	Up to 60% Relative Humidity (non-condensing)
Installation Environment	Indoor use only; minimum 6" clearance for ventilation
Interface Connections	Phoenix
Approximate Dimensions	10.8" D x 13.75" W x 4.125" H 27.5 cm D x 35 cm W x 10.5 cm H

Auto-balance Examples:
Balance 6 cells to 3.9V at 0.4A

```
{
  "jsonrpc": "2.0",
  "method": "MacBalance",
  "params": {
    "FClass" : 1,
    "FNum": 1,
    "activeCells": 6,
    "Tolerance": 0.002,
    "Timeout": 600,
    "Vset": 3.9,
    "Iset": 0.4,
    "sampleTime": 1,
    "finisheTime": 15,
  },
  "id": 1987
}
```

JSON-RPC



MacTest