



Key Features

- ✓ **Individual TEC Control:** Each cell has its own dedicated TEC for closed-loop temperature regulation
- ✓ **Machined Aluminum Interface:** Maximizes thermal conductivity and mechanical stability
- ✓ **Active Cooling Support:** Designed to Maintain $\pm 2^\circ\text{C}$ surface temperature control under typical load conditions.
- ✓ **Tool-free Access:** Pull-out tray with thermal insulation cover allows easy cell replacement
- ✓ **Flexible Integration:** Compatible with environmental chambers and standalone racks.

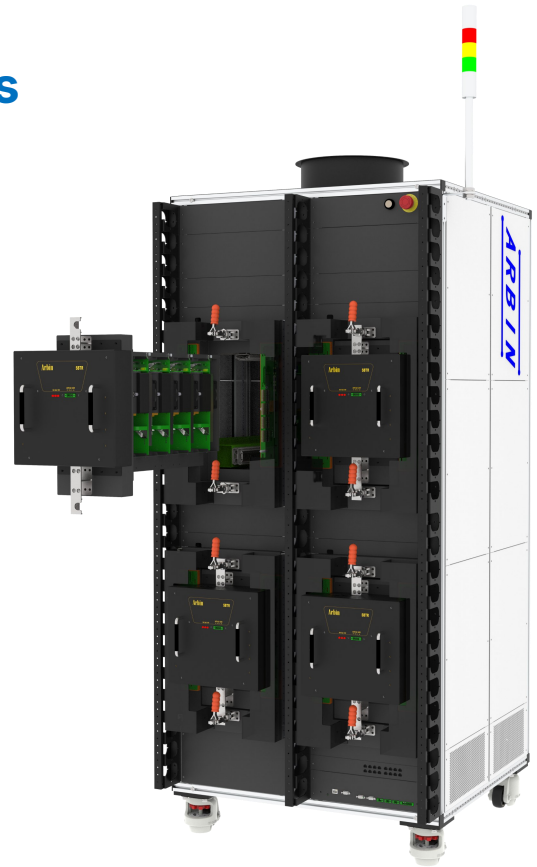
Controlled and Convenient

Arbin's SBTR-OTO battery tray features advanced thermal management with integrated thermoelectric cooling (TEC) modules to provide precise, independent temperature control for each cell. Designed for high-performance testing environments, each cell is seated within a machined aluminum housing that ensures direct thermal contact with the TEC module. The opposite side of the TEC is exposed to ambient conditions—typically an environmental chamber—allowing for passive or chamber-assisted heat rejection.

Standard Configurations

Name	SBTR-OTO-16CH-30A	SBTR-OTO-8CH-50A	SBTR-OTO-4CH-200A
Max Current per Cell	30 A	50 A	200 A
Max Number of Cells	16	8	4
Battery Type	Cylindrical Cell		
Battery Size	18650, 21700	18650, 21700	4680, 4695, 46120
Voltage Range	0 V to 5 V	0 V to 5 V	0 V to 5 V
RTD PT100 Ports per Cell	2	2	2
Contact Resistance of Positive or Negative Electrode	$< 3\text{ m}\Omega$	$< 2\text{ m}\Omega$	$< 0.5\text{ m}\Omega$
Clamping Force per Cell	2.5 Kg	5 Kg	15 Kg
Control Temperature Range per Cell	(-40°C or ambient temperature minus 10°C , whichever is higher) to (80°C or ambient temperature plus 40°C , whichever is lower)		
Temperature Control Accuracy ¹	$\pm 2^\circ\text{C}$	$\pm 2^\circ\text{C}$	$\pm 2^\circ\text{C}$
Temperature Measurement Accuracy	$\pm 1^\circ\text{C}$	$\pm 1^\circ\text{C}$	$\pm 1^\circ\text{C}$

Thermal Chamber or Rack Solutions



Contact Us



1 (979) 690-2751



sales@arbin.com



www.arbin.com

Rev: Sept 2025