



Multi-Channel charging system

General Description

This document provides the technical specification for AMICELL's Multi-Channel Charging System, designed for charging and balancing Lithium-Ion battery packs. The system is provided in modular 19" rack-mount portable cases and is suitable for rugged operational environments.

System Variants: 8U System: Portable Charging Rack with Balance + Storage Drawer

Charging and Balancing System Specification

Item	Specification
System	Dual Channel Charging + Balancing Unit
Channels	2 Independent Li-Ion Chargers
Charging Voltage	Up to 58.8V per channel
Charging Current	500W
End of Charge	Current $<150 \pm 50\text{mA}$
Charging Connector	D38999/24WC35PN
Input Voltage	100–250VAC
Indicators	LEDs & Voltmeter for charge/balance status
Charging Time	Recommended: 8–10 hours; Max: 17 hours
Charging Temp. Range	0 to $+40^{\circ}\text{C}$
Enclosure	8U-300 case

AMICELL's Multi-Channel Charging System provides modular, portable solutions for charging and balancing advanced Li-Ion battery packs. With configurable 6U and 8U systems, built-in diagnostics, and rugged enclosures, these systems are ideal for mission-critical field applications.