



CORE kWh+

Li-ion Energy Storage Module



+ Specifications

	AC-48150	AC-51150
Nominal Voltage	47.7 V	51.4 V
Capacity*	150 Ah.	150 Ah.
Nominal Energy	7.18 kWh.	7.73 kWh.
Size	24" x 12" x 6" (61 x 30.5 x 15.3 cm)	24" x 12" x 6" (61x 30.5 x 15.3 cm)
Weight	120 lbs. (53 kg)	123 lbs. (56 kg)

+ Operating Specifications

Operating Voltage	32.5 V ~ 54.6 V	35 V ~ 58.8 V
Charge Voltage	54.6 V	58.8 V
Maximum Discharge Current Continuous (Peak)	80 A (128 A)	80 A (128 A)
Maximum Charge Current	40 A	40 A
Temperature Range** Discharge (Charge)	-20° to 60°C (0 to 40°C)	-20° to 60°C (0 to 40°C)

+ Storage Specifications

Voltage Range	47 ~ 49 V	51 ~ 53 V
Temperature Range	-20° ~ 40°C	-20° ~ 40°C

*Capacity measured during a constant 3-hour discharge at room temperature

**Power regulation required above 40°C

+ Integrated BMS Features

- Cell Balancing
- High Temperature Cutoff
- Overcurrent Cutoff
- Overcharge Protection
- Overdischarge Protection
- Short Circuit Protection
- Configurable data logging settings
- Fuel gauge support via CAN, analog voltage signal, or standard LED board configuration
- Fault log to support distributor and OEM troubleshooting

+ System Benefits

- Perfect for hot environments
- Ideal for use in remote locations
- Long-lasting and durable
- 25% the weight of equivalent lead-acid batteries
- Maintenance-free
- Protection against thermal runaway propagation
- Smart overall configuration

+ Integrated Thermal Management

AllCell batteries are protected by our proprietary Phase Change Composite (PCC™). The PCC absorbs waste heat ensuring uniform pack temperature, and has passed the UL 94 flammability test with V-0 rating. The result is industry leading safety with extended cycle life.



CORE

Lithium-ion Batteries

The CORE is AllCell's newest line of versatile batteries ideally suited for customers looking to avoid investing in a custom-designed solution. The clean and simple CORE packs are built with high quality components, keeping costs low while delivering premium performance. A plastic enclosure protects the pack from bumps and bruises while offering a more finished look. Every CORE battery is protected by AllCell's proprietary PCC™ thermal management material, optimizing cycle life and safety.



+ COMPACT SIZE AND WEIGHT

- Fit more amp-hours into your battery case and deliver more operating time per pound.
- AllCell batteries combine the highest quality cells with effective heat management to deliver industry leading energy density.



+ THERMAL RUNAWAY PROTECTION

AllCell's Patented PCC Thermal Management Material:

- Prevents cells from overheating
- Protects against fire and explosion
- Improves cycle life
- Minimizes customer returns



+ ADAPTABLE

CORE batteries come in several compact sizes and voltages, making them a perfect fit for a variety of motors, inverters, and duty cycles.



+ PROGRAMMABLE

An optional advanced proprietary battery management system (BMS) provides the CORE with CANbus communication capabilities to support state-of-the-art functionality and protection, including programmable operation and configurable communication parameters.



+ Safety and Shipping

AllCell's proprietary PCC™ material protects our batteries from overheating, preventing battery fires. AllCell strictly adheres to all domestic and international shipping regulations and rules and assists customers with UN/IATA certification, hazardous materials regulations, and training. AllCell's PCC™ has passed the UL 94 V-0 flammability test.

