CORE 48
48V Li-ion Batteries

### Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Voltage</td>
<td>47.7 V</td>
</tr>
<tr>
<td>Capacity*</td>
<td>25. Ah.</td>
</tr>
<tr>
<td>Nominal Energy</td>
<td>1196 Wh.</td>
</tr>
<tr>
<td>Size**</td>
<td>10.8&quot; x 7.8&quot; x 3.3&quot; (30 x 20 x 8.4 cm)</td>
</tr>
<tr>
<td>Weight</td>
<td>16.5 lbs. (7.5 kg)</td>
</tr>
</tbody>
</table>

### Operating Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Voltage</td>
<td>32.5 ~ 54.6 V</td>
</tr>
<tr>
<td>Maximum Discharge Current</td>
<td>Continuous (Peak) 40 A (64 A)</td>
</tr>
<tr>
<td>Maximum Charge Current</td>
<td>10 A</td>
</tr>
<tr>
<td>Temperature Range***</td>
<td>Discharge (Charge) -20°C to 60°C (0 to 40°C)</td>
</tr>
</tbody>
</table>

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

**Size of pack with standard BMS option

***Power regulation required above 40°C

### Integrated BMS Features

- Standard
  - Cell Balancing
  - High Temperature Cutoff
  - Overcurrent Cutoff
  - Overcharge Protection
  - Overdischarge Protection
  - Short Circuit Protection

- Optional
  - CAN 2.0B
  - Programmable Protection & Communication
  - Precise State of Charge Reporting

### System Features

- XLR charge connector
- Anderson power pole discharge connector
- Extended cycle life
- Excellent energy density

### 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.

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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.