

# Charging & Balancing System

## 1582 Series Charger

Item	Specification
<b>Description</b>	Lithium-Ion/Polymer Charger + Balancing system, calibrated according to customer request
<b>Charging Method</b>	CC-CV (Constant Current - Constant Voltage)
<b>Charging Voltage</b>	According to charger calibration ( $\pm 0.2V$ )
<b>Charging Current</b>	Up to 10A / 600W
<b>Electronic System</b>	<ul style="list-style-type: none"> <li>- Lithium-Ion Charging system</li> <li>- Balancing system</li> <li>- Battery status display (Charging + Balancing) – OLED display</li> <li>- SOC levels: Full / Storage / Transportation</li> <li>- Battery thermal protection during charge</li> <li>- Battery recovery function – slow charge in low voltage</li> <li>- Electronic Load 150W</li> </ul>
<b>Charger + Balancer Safety Systems</b>	<ul style="list-style-type: none"> <li>- Reverse polarity protection</li> <li>- Overcharge protection on each cell</li> </ul>
<b>Input Voltage</b>	9-36VDC
<b>Charge Connector</b>	D-type 21WA4 Male/ D-type 17W2 Male
<b>Inlet Connector</b>	Anderson PP-15-45 x 2 (Red/Black)
<b>Switches</b>	- ON/OFF switch    - SOC button selector
<b>Output Data</b>	RS232 connection (RS232 cable not supplied)
<b>Charging Temperature Range</b>	0 - +40°C
<b>Case Dimensions</b>	Amicell case – D240 x W120 x H230
<b>State of Charge (SOC) Level Selector</b>	
<b>Feature</b>	<b>Details</b>
<b>SOC Charge Levels</b>	~30%, ~60%, 100%
<b>User Control</b>	<p>The user selects SOC level per channel.</p> <p>System automatically charges/discharges to reach the selected level.</p>
<b>Note</b>	This option must be set before activation and cannot be changed during charging. To change SOC level, turn off and restart the charger.
<b>Additional Features &amp; Options</b>	
<b>Feature</b>	<b>Description</b>
<b>Internal Memory Card Reader</b>	Can store battery data such as serial number, manufacturing date, and cycle count.
<b>Mode Test</b>	Runs a test on the battery pack, checking SOC and voltage drop under load.
<b>Automatic Timer</b>	Option to disconnect charger automatically after <b>17 hours</b> .
<b>OEM Labeling</b>	Charger can be branded as <b>OEM</b> per customer request.