

# ST 14.4V 3AH-AMP Data Sheet

**SoluThium**  
Powered by LiCore™ C

## NOMINAL VOLTAGE / CAPACITY / ENERGY

14.4 V / 3.2Ah / 48Wh

## TYPE & CHEMISTRY

Lithium Battery / Lithium-Ion (NCA)

## DIMENSIONS

3.5" (L) x 3.2" (W) x 0.9" (H)



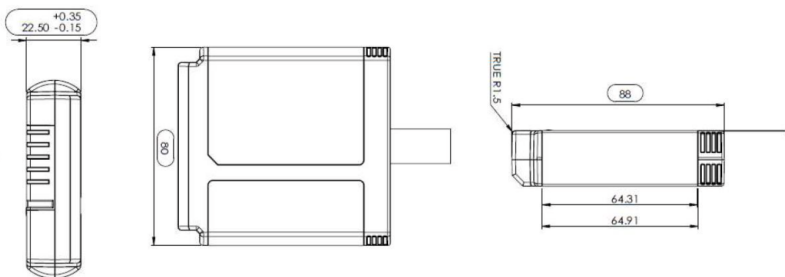
## BATTERY SPECIFICATIONS

|                    |                                        |                            |                      |
|--------------------|----------------------------------------|----------------------------|----------------------|
| Model No.          | ST 14.4V 3AH-AMP                       |                            |                      |
| Chemistry          | LiNiCoAlO <sub>2</sub>                 | Pack Configuration         | 4S1P                 |
| Nominal Voltage    | 14.4 V                                 | Charge/Discharge Connector | AMP 787614-1 5-pin   |
| Capacity           | 3.2Ah                                  | Pairing Charger            | Available            |
| Energy             | 48Wh                                   | Case                       | Plastic (PC/ABS)     |
| Weight             | 250g ± 50g                             | Communication              | SMBus                |
| Nominal Dimensions | L 3.5" (88mm)                          | Charging Current           | 1.6A                 |
|                    | W 3.2" (80mm)                          | Cont. Discharge Current    | 5A (max: 5.5A, 1s)   |
|                    | H 0.9" (22.5mm)                        |                            |                      |
| Certifications     | UN38.3<br>IEC 62133-2<br>IEC 60601-1-2 | Indicators                 | 4 LEDs / Push Button |

## BMS SPECIFICATIONS

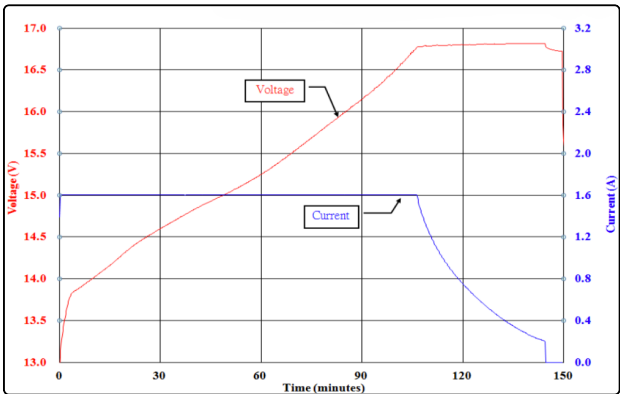
|                                   |                                                                                          |
|-----------------------------------|------------------------------------------------------------------------------------------|
| Over Charge Voltage Threshold     | 4.25V ± 0.025V/cell                                                                      |
| Over Charge Voltage Release       | 4.0V ± 0.050V/cell                                                                       |
| Over Discharge Voltage Threshold  | 2.7V ± 0.050V/cell                                                                       |
| Over Discharge Voltage Release    | 3.0V ± 0.10V/cell                                                                        |
| Over Discharge Current Protection | 5.5A ± 1%                                                                                |
| Over Discharge Current Release    | 2s                                                                                       |
| Short Circuit Protection          | 50A                                                                                      |
| Balance Function                  | Yes                                                                                      |
| BMS Gauge                         | Read with SMBus:<br>Voltage / Current / Temperature / Full Charge Capacity / Cycle Count |

## DRAWINGS



## CHARGING CURVES

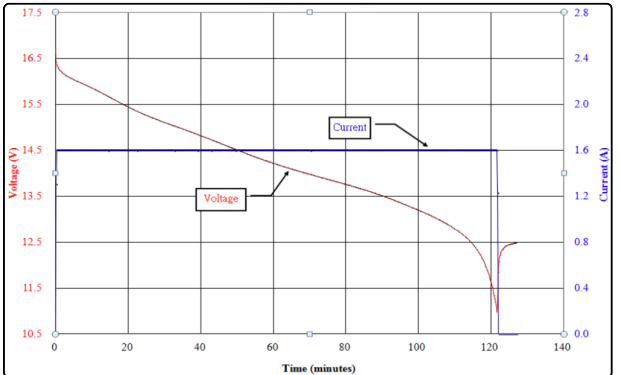
Charging profile: CC/CV mode, 16.8V charge voltage, 1.6A constant current, charge cutoff at 0.2A



Charge Current: 1.6A  
Charge Time: 2.4 hrs

## DISCHARGING CURVES

Constant current discharge at 1.6A until protection cutoff triggered by BMS



Discharge Current: 1.6A (0.5C)  
Discharge Time: 2.1 hrs