

ST 14.4V 3AH-DC Data Sheet

SoluThium
Powered by LiCore™ C

NOMINAL VOLTAGE / CAPACITY / ENERGY

14.4 V / 3.35Ah / 48.24Wh

TYPE & CHEMISTRY

Lithium Battery / Lithium-Ion (NCA)

DIMENSIONS

3.74" (L) x 1.66" (W) x 1.76" (H)



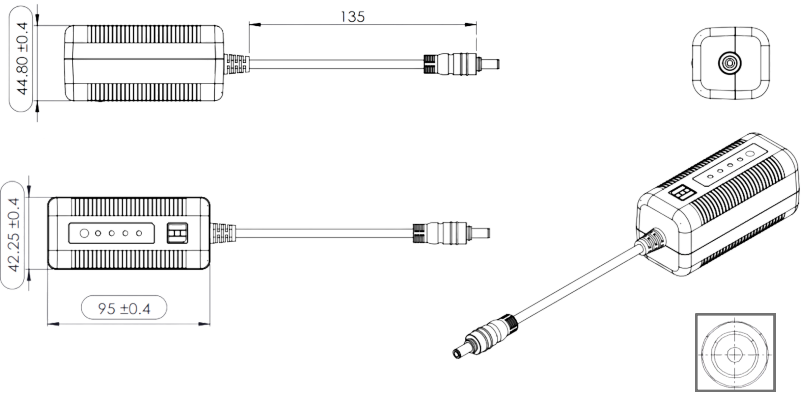
BATTERY SPECIFICATIONS

Model No.	ST 14.4V 3AH-DC		
Chemistry	LiNiCoAlO ₂	Pack Configuration	4S1P
Nominal Voltage	14.4 V	Charge/Discharge Connector	DC Plug 2.5mm
Capacity	3.35Ah	Pairing Charger	Available
Energy	48.24Wh	Case	Plastic (PC/ABS)
Weight	255g ± 10g	Communication	N/A
Nominal Dimensions	L 3.74" (95mm)	Charging Current	1.6A (max. 3A)
	W 1.66" (42.25mm)	Cont. Discharge Current	3A (max. 8A,30ms)
	H 1.76" (44.8mm)		
Certifications	UN38.3 PSE IP65	Indicators	4 LEDs / Push Button

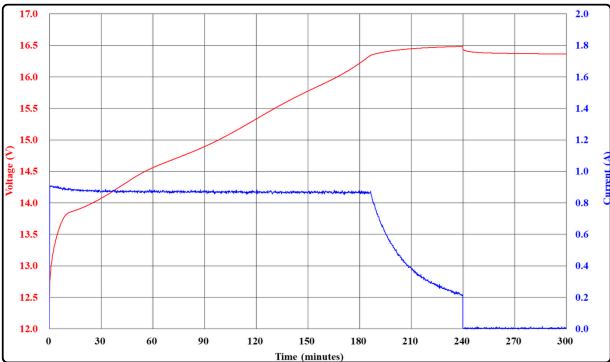
BMS SPECIFICATIONS

Over Charge Voltage Threshold	4.2V ± 0.025V/cell
Over Charge Voltage Release	4.1V ± 0.05V/cell
Over Discharge Voltage Threshold	2.5V ± 0.08V/cell
Over Discharge Voltage Release	2.7V ± 0.1V/cell
Over Current Protection Level 1	12A ± 1A
Over Current Protection Level 2	20A ± 4A
Over Discharge Current Release	External load removed
Short Circuit Delay Time	300µs (100µs~600µs)
Short Circuit Release	External load removed 20mA
Balance Function	N/A

MECHANICAL DESIGN



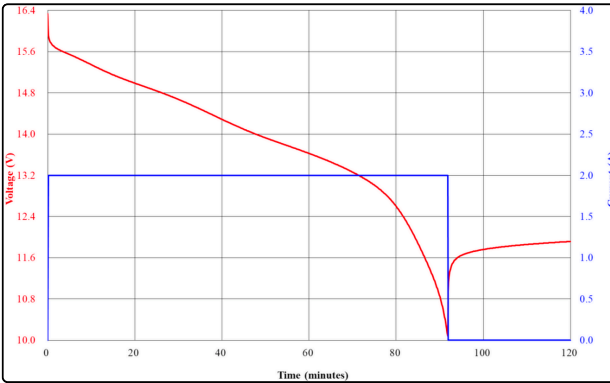
CHARGING CURVES



Charge Current: 0.9A
Charge Time: 4 hrs

DISCHARGING CURVES

Constant current discharge at 2A until protection cutoff triggered by BMS



Discharge Current: 2A (0.6C)
Discharge Time: 1.5 hr