

ST 14.4V 6AH Data Sheet

SoluThium
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NOMINAL VOLTAGE / CAPACITY / ENERGY

14.4 V / 6.4Ah / 96Wh

TYPE & CHEMISTRY

Lithium Battery / Lithium-Ion (NCA)

DIMENSIONS

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



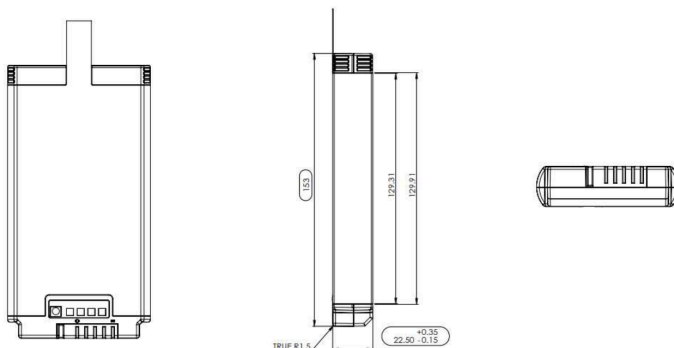
BATTERY SPECIFICATIONS

Model No.	ST 14.4V 6AH		
Chemistry	LiNiCoAlO ₂	Pack Configuration	4S2P
Nominal Voltage	14.4 V	Charge/Discharge Connector	AMP 787614-1 5-pin
Capacity	6.4Ah	Pairing Charger	Available
Energy	96Wh	Case	Plastic (PC/ABS)
Weight	450g ± 50g	Communication	SMBus
Nominal Dimensions	L 6.0" (153mm)	Charging Current	3.2A
	W 3.2" (80mm)	Cont. Discharge Current	6.5A (max: 9A, 1s)
	H 0.9" (22.5mm)		
Certifications	UN38.3 IEC 62133-2 IEC 60601-1-2	Indicators	4 LEDs / Push Button

BMS SPECIFICATIONS

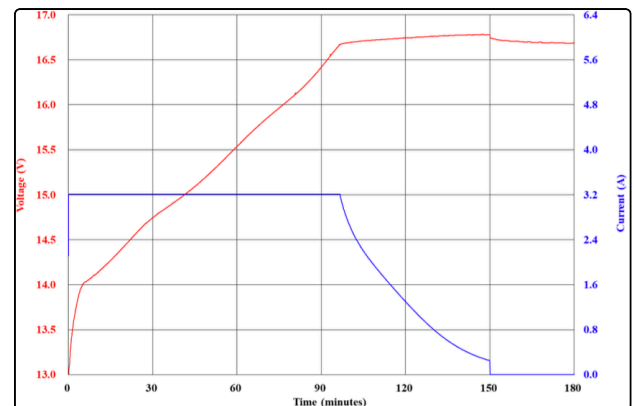
Over Charge Voltage Threshold	4.25V ± 0.025V/cell
Over Charge Voltage Release	4.0V ± 0.050V/cell
Over Discharge Voltage Threshold	2.7V ± 0.050V/cell
Over Discharge Voltage Release	3.0V ± 0.10V/cell
Over Discharge Current Protection	9A ± 1%
Over Discharge Current Release	2s
Short Circuit Protection	50A
Balance Function	Yes
BMS Gauge	Read with SMBus: Voltage / Current / Temperature / Full Charge Capacity / Cycle Count

DRAWINGS



CHARGING CURVES

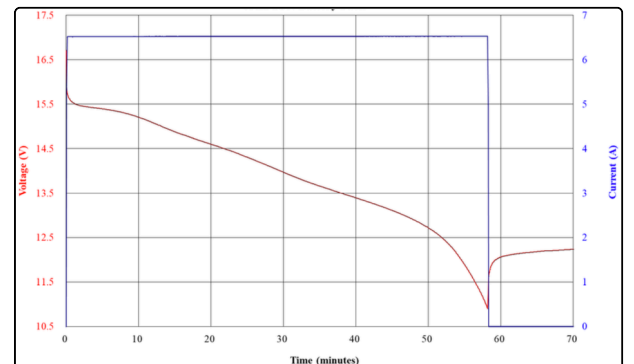
Charging profile: CC/CV mode, 16.8V charge voltage, 3.2A constant current, charge cutoff at 0.25A



Charge Current: 3.2A
Charge Time: 2.5 hrs

DISCHARGING CURVES

Constant current discharge at 6.5A until protection cutoff triggered by BMS



Discharge Current: 6.5A (1C)
Discharge Time: 0.96 hrs