

ST 7.2V 10AH Data Sheet

SoluThium
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NOMINAL VOLTAGE / CAPACITY / ENERGY

7.2 V / 9.6h / 72Wh

TYPE & CHEMISTRY

Lithium Battery / Lithium-Ion (NCA)

DIMENSIONS

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



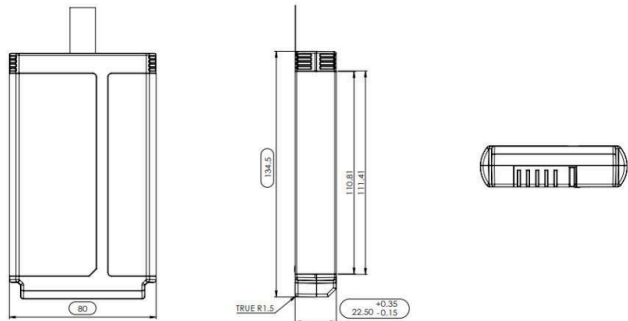
BATTERY SPECIFICATIONS

Model No.	ST 7.2V 10AH		
Chemistry	LiNiCoAlO ₂	Pack Configuration	2S3P
Nominal Voltage	7.2 V	Charge/Discharge Connector	AMP 787614-1 5-pin
Capacity	9.6 Ah	Pairing Charger	Available
Energy	72Wh	Case	Plastic (PC/ABS)
Weight	350g ± 50g	Communication	SMBus
Nominal Dimensions	L 5.3" (134.5mm)	Charging Current	5A
	W 3.2" (80mm)	Cont. Discharge Current	8A (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

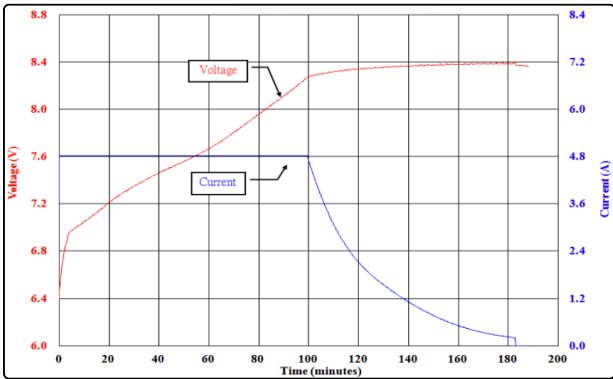
Over Charge Voltage Threshold	4.25V ± 0.025V/cell
Over Charge Voltage Release	4.0V ± 0.050V/cell
Over Discharge Voltage Threshold	2.7V ± 0.050V/cell
Over Discharge Voltage Release	3.0V ± 0.10V/cell
Over Discharge Current Protection	9A ± 1%
Over Discharge Current Release	2s
Short Circuit Protection	50A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

DRAWINGS



CHARGING CURVES

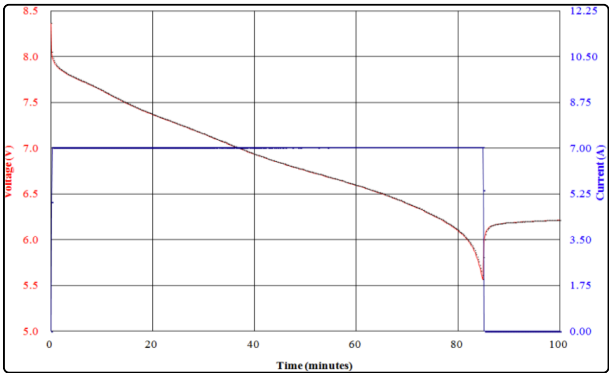
Charging profile: CC/CV mode, 8.4V charge voltage, 4.8A constant current, charge cutoff at 0.2A



Charge Current: 4.8A
Charge Time: 3.1 hrs

DISCHARGING CURVES

Constant current discharge at 7A until protection cutoff triggered by BMS



Discharge Current: 7A (0.7C)
Discharge Time: 1.4 hr