

ST 25.2V 7AH Data Sheet

SoluThium
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NOMINAL VOLTAGE / CAPACITY / ENERGY

25.2 V / 6.6Ah / 168Wh

TYPE & CHEMISTRY

Lithium Battery / Lithium-Ion (NCA)

DIMENSIONS

5.93" (L) x 2.56" (W) x 3.84" (H)



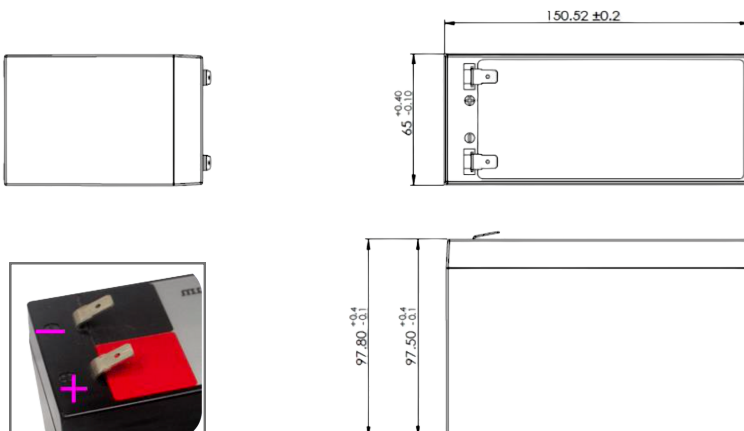
BATTERY SPECIFICATIONS

Model No.	ST 25.2V 7AH		
Chemistry	LiNiCoAlO ₂	Pack Configuration	7S2P
Nominal Voltage	25.2 V	Charge/Discharge Connector	Faston F2(250)
Capacity	6.6Ah	Pairing Charger	Available
Energy	168Wh	Case	Plastic (PC/ABS)
Weight	1kg ± 0.2kg	Communication	I2C
Nominal Dimensions	L 5.93" (150.5mm)	Charging Current	2.8A
	W 2.56" (65mm)	Cont. Discharge Current	5A (max. 16A, 32s)
	H 3.84" (97.5mm)		
Certifications	UN38.3 IEC62133-2 KC	Indicators	N/A

BMS SPECIFICATIONS

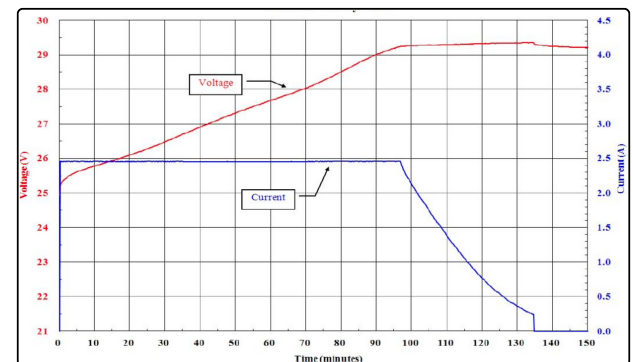
Over Charge Voltage Threshold	4.25V ± 0.025V/cell
Over Charge Voltage Release	4.15V ± 0.025V/cell
Over Discharge Voltage Threshold	2.75V ± 0.025V/cell
Over Discharge Voltage Release	3.3V ± 0.025V/cell
Over Discharge Current Protection	16A ± 2A
Over Discharge Current Release	50ms
Short Circuit Protection	86A ± 2A
Balance Function	Yes

MECHANICAL DESIGN



CHARGING CURVES

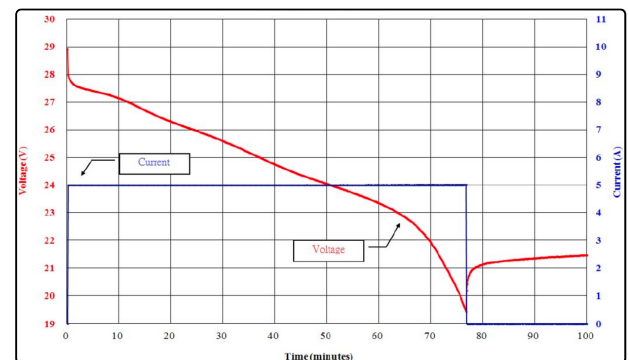
Charging profile: CC/CV mode, 29.4V charge voltage, 2.5A constant current, charge cutoff at 0.3A



Charge Current: 2.5A
Charge Time: 2.25 hrs

DISCHARGING CURVES

Constant current discharge at 5A until protection cutoff triggered by BMS



Discharge Current: 5A (0.75C)
Discharge Time: 1.3 hr