ST 25.2V 7AH Data Sheet



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)

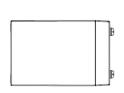
BATTERY SPECIFICATIONS

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	5A	
	Н	3.84" (97.5mm)	Current	(max. 16A, 32s)	
Certifications	UN38.3 IEC62133-2 KC		Indicators	N/A	

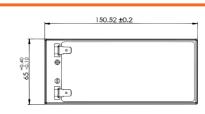
BMS SPECIFICATIONS

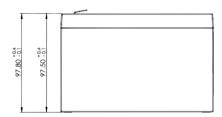
Over Charge Voltage Threshold	4.25V ± 0.025V/cell	
Over Charge Voltage Release	4.15V ± 0.025V/cell	
Over Discharge Voltage Threshold	2.75V ± 0.025V/cell	
Over Discharge Voltage Release	3.3V ± 0.025V/cell	
Over Discharge Current Protection	16A ± 2A	
Over Discharge Current Release	50ms	
Short Circuit Protection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

MECHANICAL DESIGN





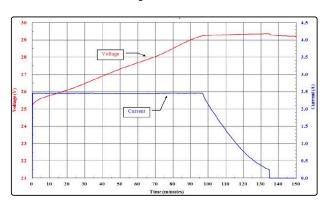






CHARGING CURVES

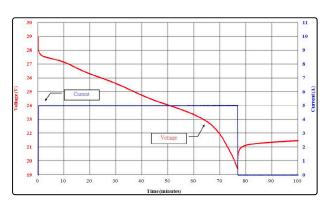
Charging profile: CC/CV mode, 29.4V charge voltage, 2.5A constant current, charge cutoff at 0.3A



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