ST 10.8V 6AH Data Sheet



NOMINAL VOLTAGE / CAPACITY / ENERGY

10.8 V / 6.4Ah / 72Wh

TYPE & CHEMISTRY

Lithium Battery / Lithium-Ion (NCA)

DIMENSIONS

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



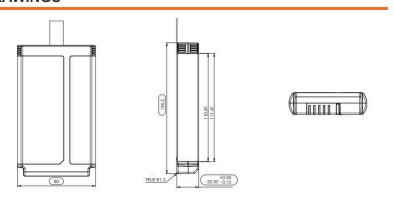
BATTERY SPECIFICATIONS

Model No.	ST 10.8V 6AH			
Chemistry	LiNiCoAlO ₂		Pack Configuration	3S2P
Nominal Voltage	10.8 V		Charge/Discharge Connector	AMP 787614-1 5-pin
Capacity	6.4Ah		Pairing Charger	Available
Energy	72Wh		Case	Plastic (PC/ABS)
Weight	350g ± 50g		Communication	SMBus
Nominal Dimensions	L	5.3" (134.5mm)	Charging Current	3.2A
	W	3.2" (80mm)	Cont. Discharge Current	6.5A (max: 9A, 1s)
	Н	0.9" (22.5mm)		
Certifications	IEC	38.3 62133-2 66601-1-2	Indicators	4 LEDs / Push Button

BMS SPECIFICATIONS

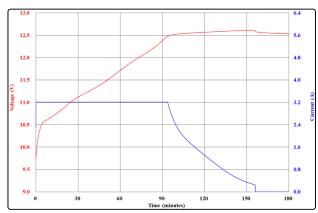
Over Charge Voltage Threshold	4.25V ± 0.025V/cell	
Over Charge Voltage Release	4.0V ± 0.050V/cell	
Over Discharge Voltage Threshold	2.7V ± 0.050V/cell	
Over Discharge Voltage Release	3.0V ± 0.10V/cell	
Over Discharge Current Protection	9A ± 1%	
Over Discharge Current Release	2s	
Short Circuit Protection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

DRAWINGS



CHARGING CURVES

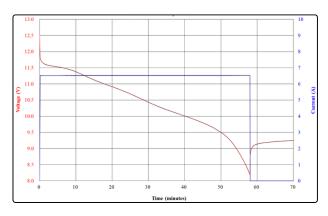
Charging profile: CC/CV mode, 12.6V charge voltage, 3.2A constant current, charge cutoff at 0.25A



Charge Current: 3.2A Charge Time: 2.6 hrs

DISCHARGING CURVES

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



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

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