# ST 7.2V 13AH Data Sheet



**NOMINAL VOLTAGE / CAPACITY / ENERGY** 

7.2 V / 12.8Ah / 96Wh

**TYPE & CHEMISTRY** 

Lithium Battery / Lithium-Ion (NCA)

**DIMENSIONS** 

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



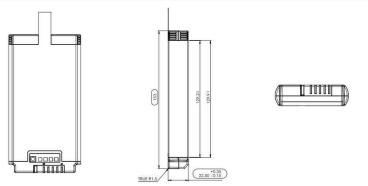
## **BATTERY SPECIFICATIONS**

Model No.	ST	7.2V 13AH			
Chemistry	LiNiCoAlO <sub>2</sub>		Pack Configuration	2S4P	
Nominal Voltage	7.2 V		Charge/Discharge Connector	AMP 787614-1 5-pin	
Capacity	12.8Ah		Pairing Charger	Available	
Energy	96Wh		Case	Plastic (PC/ABS)	
Weight	450g ± 50g		Communication	SMBus	
Nominal Dimensions	L	6.0" (153mm)	Charging Current	6.4A (max. 7A)	
	W	3.2" (80mm)	Cont. Discharge Current	8A (max: 9A, 1s)	
	Н	0.9" (22.5mm)			
Certifications	UN38.3 IEC 62133-2 IEC 60601-1-2		Indicators	4 LEDs / Push Button	

# **BMS SPECIFICATIONS**

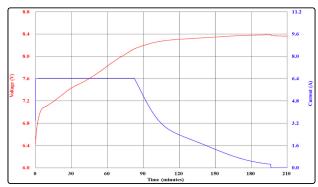
Over Charge Voltage Threshold	4.25V ± 0.025V/cell	
Over Charge Voltage Release	4.0V ± 0.050V/cell	
Over Discharge Voltage Threshold	2.7V ± 0.050V/cell	
Over Discharge Voltage Release	3.0V ± 0.10V/cell	
Over Discharge Current Protection	9A ± 1%	
Over Discharge Current Release	2s	
Short Circuit Protection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

#### **DRAWINGS**



# **CHARGING CURVES**

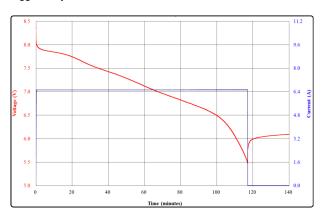
Charging profile: CC/CV mode, 8.4V charge voltage, 6.4A constant current, charge cutoff at 0.25A



Charge Current: 6.4A Charge Time: 3.3 hrs

## **DISCHARGING CURVES**

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



Discharge Current: 6.4A (0.5C) Discharge Time: 1.9 hr

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