# ST 25.4V 24AH Data Sheet



**NOMINAL VOLTAGE / CAPACITY / ENERGY** 

25.4 V / 23.76Ah / 603.74Wh

**TYPE & CHEMISTRY** 

**Lithium Battery / Lithium-Ion (NCA)** 

**DIMENSIONS** 

12.2" (L) x 4.25" (W) x 3.15" (H)

# Sauring

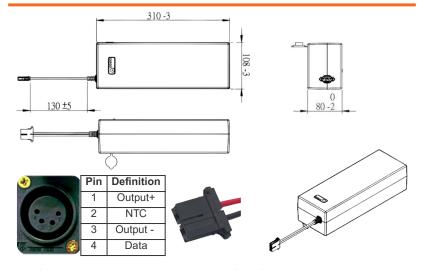
## **BATTERY SPECIFICATIONS**

Model No.	ST	25.4V 24AH		
Chemistry	LiNiCoAlO <sub>2</sub>		Pack Configuration	7S5P
Nominal Voltage	25.4V		Charge/Discharge Connector	94M-0072-4PIN / AMP 179956-2
Capacity	23.76 Ah		Pairing Charger	Available
Energy	603.74Wh		Case	Plastic (PC/ABS)
Weight	3.25kg ± 5%		Communication	N/A
Nominal Dimensions	L	12.2" (310mm)	Charging Current	5A (max. 7A)
	W	4.25" (108mm)	Cont. Discharge	25A
	Н	3.15" (80mm)	Current	(max. 32A, 5s)
Certifications	In Progress: UN38.3 / EMC / IEC62133-2 / UL62133		Indicators	4 LEDs / Push Button

### **BMS SPECIFICATIONS**

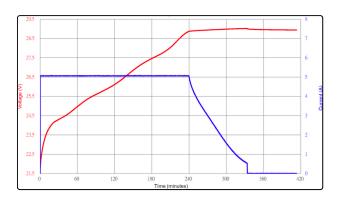
Over Charge Voltage Threshold	4.2V ± 0.025V/cell	
Over Charge Voltage Release	4.0V ± 0.025V/cell	
Over Discharge Voltage Threshold	2.8V ± 0.025V/cell	
Over Discharge Voltage Release	3.3V ± 0.025V/cell	
Over Discharge Current Protection	32A ± 2A	
Over Discharge Current Release	10s	
Short Circuit Protection	250A ± 1%	
Balance Function	Yes	

### **MECHANICAL DESIGN**



# **CHARGING CURVES**

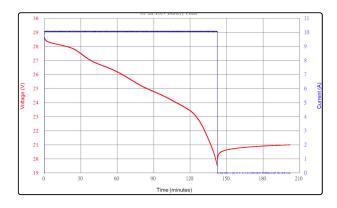
Charging profile: CC/CV mode, 29.05V charge voltage, 5A constant current, charge cutoff at 0.5A



Charge Current: 10A Charge Time: 2.3 hrs

### **DISCHARGING CURVES**

Constant current discharge at 10A until protection cutoff triggered by BMS



Discharge Current: 10A (1C)
Discharge Time: 2.3 hr
Temperature: 26.8°C increases to 39.1°C (12.3°C rise)