# ST 50.4V 24AH Data Sheet



**NOMINAL VOLTAGE / CAPACITY / ENERGY** 

50.4V / 24Ah / 1209.6Wh

**TYPE & CHEMISTRY** 

Lithium Battery / Lithium-Ion (NMC)

**DIMENSIONS** 

15.8" (L) x 6.15" (W) x 3.35" (H)

# SoluThium Powered by LiCore™C

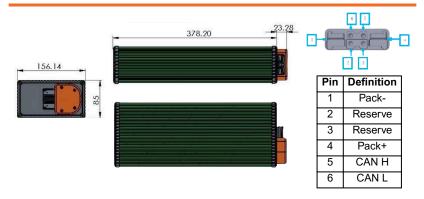
## **BATTERY SPECIFICATIONS**

Model No.	ST	50.4V 24AH		
Chemistry	LiNiMnCoO <sub>2</sub>		Pack Configuration	14S6P
Nominal Voltage	50.4 V		Charge/Discharge Connector	Anderson SBS75XBLK-BK
Capacity	24 Ah		Pairing Charger	Available
Energy	1209.6Wh		Case	Aluminum
Weight	8.6kg ± 5%		Indicators	N/A
Nominal Dimensions	L	15.8" (401.5mm)	Charging Current	7A (max. 24A)
	W	6.15" (156.1mm)	Cont. Discharge	50A
	Н	3.35" (85mm)	Current	(max. 70A, 10s)
IP Rating	IP66		Communication	CANBus (500K bps)
Certification	UN38.3			

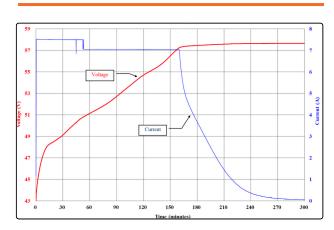
### **BMS SPECIFICATIONS**

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	70A ± 2A	
Over Discharge Current Release	10s	
Short Circuit Protection	200A ± 2A	
Balance Function	Yes	
BMS Gauge	Read with CANBus: Voltage / Current / Temperature / Full Charge Capacity / Cycle Count	

### **MECHANICAL DESIGN**



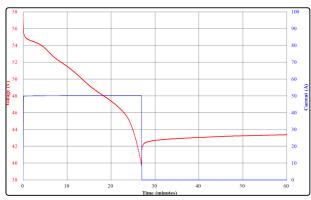
### **CHARGING CURVES**



Charge Current: 7A Charge Time: 5 hrs

### **DISCHARGING CURVES**

Constant current discharge at 50A until protection cutoff triggered by BMS



Discharge Current: 50A (2C)
Discharge Time: 0.45 hr
Temperature: 27.4°C increases to 50.7°C (23.3°C rise)

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