

ST 25.2V 20AH Data Sheet

NOMINAL VOLTAGE / CAPACITY / ENERGY

25.2 V / 19.8Ah / 504Wh

TYPE & CHEMISTRY

Lithium Battery / Lithium-Ion (NCA)

DIMENSIONS

8.66" (L) x 5.91" (W) x 2.87" (H)



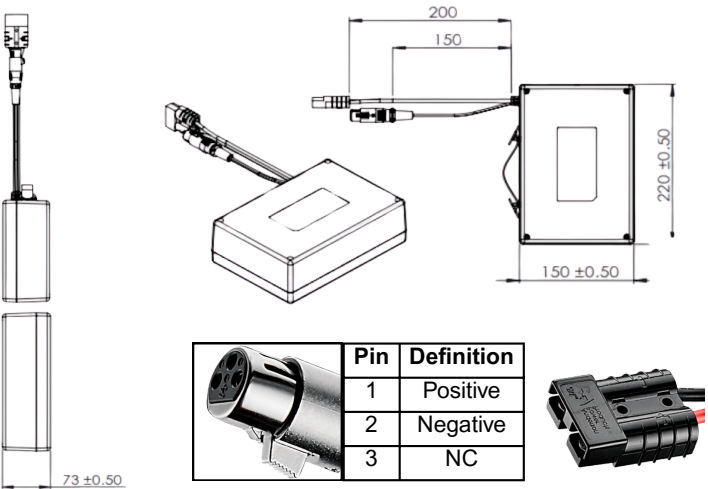
BATTERY SPECIFICATIONS

Model No.	ST 25.2V 20AH		
Chemistry	LiNiCoAlO ₂	Pack Configuration	7S6P
Nominal Voltage	25.2 V	Charge/Discharge Connector	89M-104P3 (3pin) Anderson SB-50
Capacity	19.8 Ah	Pairing Charger	Available
Energy	504Wh	Case	Plastic (PC/ABS)
Weight	2.8kg ± 5%	Communication	N/A
Nominal Dimensions	L 8.66" (220mm)	Charging Current	5A (max. 7.5A)
	W 5.91" (150mm)	Cont. Discharge Current	30A (max. 55A, 10s)
	H 2.87" (73mm)		
Certifications	UN38.3 IEC 62133-2 PSE	Indicators	N/A

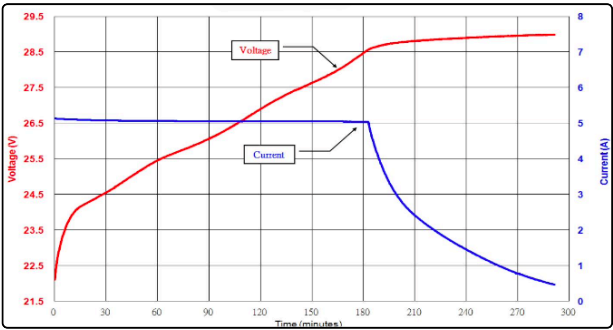
BMS SPECIFICATIONS

Over Charge Voltage Threshold	4.25V ± 0.025V/cell
Over Charge Voltage Release	4.1V ± 0.025V/cell
Over Discharge Voltage Threshold	2.8V ± 0.025V/cell
Over Discharge Voltage Release	3.2V ± 0.025V/cell
Over Discharge Current Protection	55A ± 2A
Over Discharge Current Release	16s
Short Circuit Protection	120A ± 1%
Balance Function	Yes

MECHANICAL DESIGN



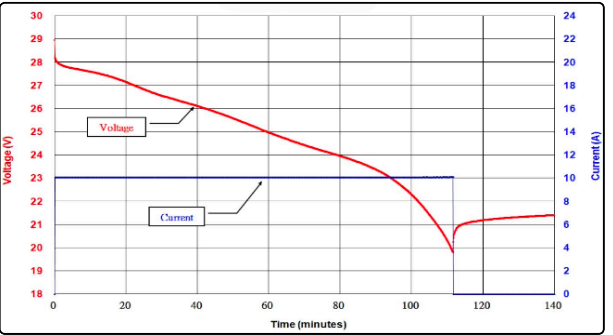
CHARGING CURVES



Charge Current: 5A
Charge Time: 5.5 hrs

DISCHARGING CURVES

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



Discharge Current: 10A (0.5C)
Discharge Time: 1.8 hr