

ST 25.2V 34AH Data Sheet

SoluThium
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NOMINAL VOLTAGE / CAPACITY / ENERGY

25.2 V / 33.6Ah / 845.6Wh

TYPE & CHEMISTRY

Lithium Battery / Lithium-Ion (NMC)

DIMENSIONS

11.3" (L) x 6.14" (W) x 3.35" (H)



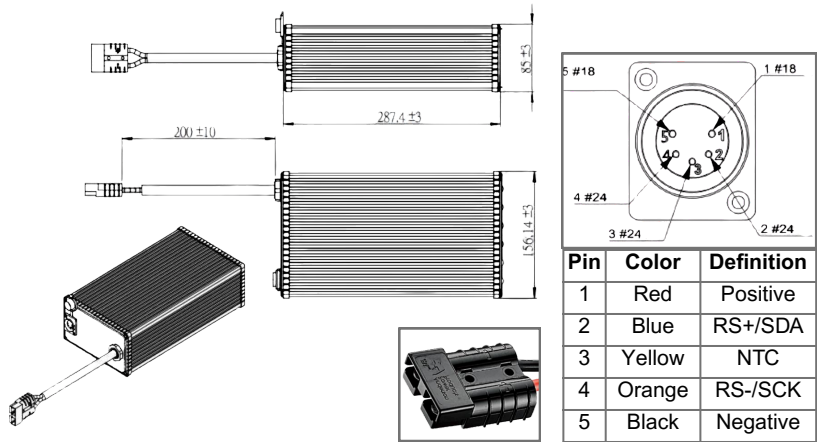
BATTERY SPECIFICATIONS

Model No.	ST 25.2V 34AH		
Chemistry	LiNiMnCoO ₂	Pack Configuration	7S4P
Nominal Voltage	25.2 V	Charge/Discharge Connector	94M007P-5S / Anderson SB-50
Capacity	33.6Ah	Pairing Charger	Available
Energy	845.6Wh	Case	Aluminum
Weight	5.62kg ± 5%	Communication	SMBus
Nominal Dimensions	L 11.3" (287mm)	Charging Current	5A (max. 7.5A)
	W 6.14" (156mm)	Cont. Discharge Current	50A (max. 63A, 16s)
	H 3.35" (85mm)		
Certifications	UN38.3	Indicators	N/A

BMS SPECIFICATIONS

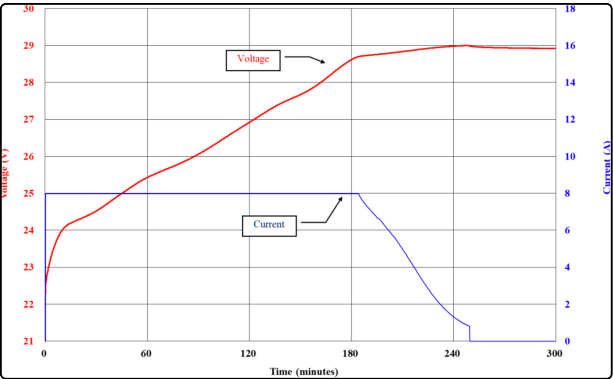
Over Charge Voltage Threshold	4.25V ± 0.025V/cell
Over Charge Voltage Release	4.1V ± 0.025V/cell
Over Discharge Voltage Threshold	2.8V ± 0.025V/cell
Over Discharge Voltage Release	3.3V ± 0.025V/cell
Over Discharge Current Protection	63A ± 1A
Over Discharge Current Release	30s
Short Circuit Protection	200A ± 1%
Balance Function	Yes

MECHANICAL DESIGN



CHARGING CURVES

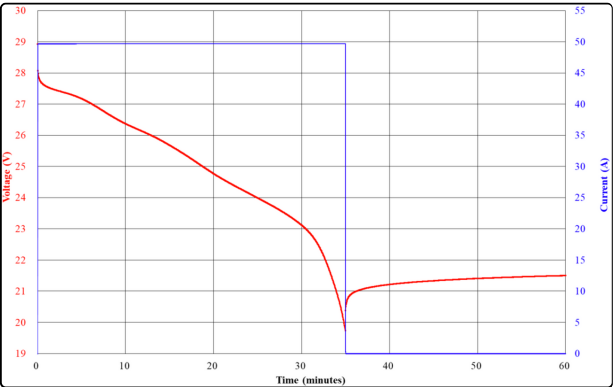
Charging profile: CC/CV mode, 29.05V charge voltage, 8A constant current, charge cutoff at 0.8A



Charge Current: 8A
Charge Time: 4.2 hrs

DISCHARGING CURVES

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



Discharge Current: 50A (1.5C)
Discharge Time: 0.6 hr
Temperature: 25.2°C increases to 43.6°C (18.4°C rise)