

ST 12.8V 36AH Data Sheet

SoluThium
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NOMINAL VOLTAGE / CAPACITY / ENERGY

12.8 V / 36Ah / 460.8Wh

TYPE & CHEMISTRY

Lithium Battery / Lithium Iron Phosphate

DIMENSIONS

11.6" (L) x 6.2" (W) x 3.4" (H)



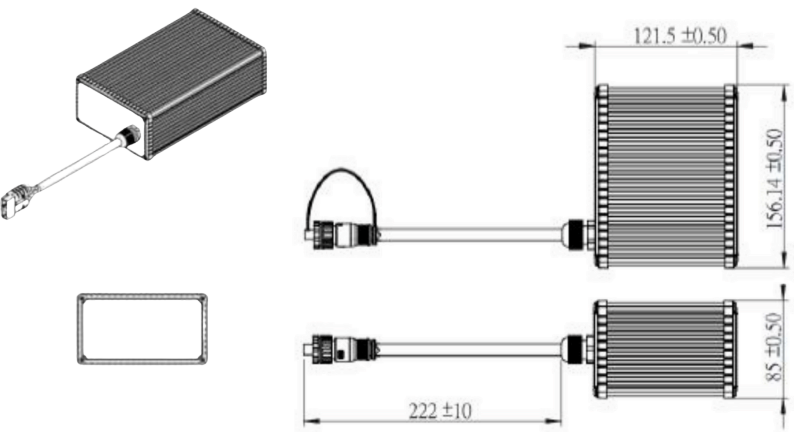
BATTERY SPECIFICATIONS

Model No.	ST 12.8V 36AH		
Chemistry	LiFePO ₄ (LFP)	Pack Configuration	4S6P
Nominal Voltage	12.8 V	Charge/Discharge Connector	Anderson SB-50
Capacity	36Ah	Pairing Charger	Available
Energy	460.8Wh	Indicators	N/A
Weight	5kg ± 5%	Communication	N/A
Nominal Dimensions	L 11.6" (259.5mm)	Charging Current	12A
	W 6.2" (156.1mm)	Cont. Discharge Current	50A (max: 55A, 1.3s)
	H 3.4" (85mm)		
Certification	UN38.3	Case	Aluminum

BMS SPECIFICATIONS

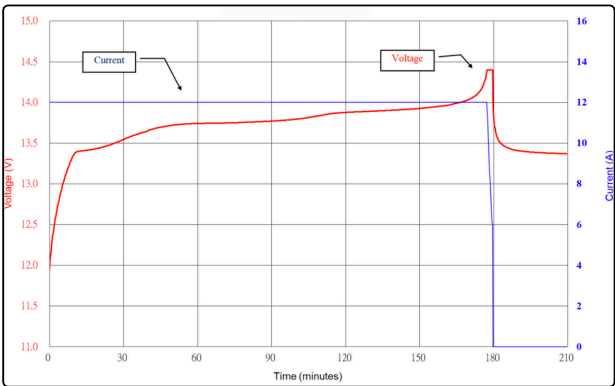
Over Charge Voltage Threshold	3.8V ± 0.025V/cell
Over Charge Voltage Release	3.5V ± 0.03V/cell
Over Discharge Voltage Threshold	2.2V ± 0.08V/cell
Over Discharge Voltage Release	2.8V ± 0.10V/cell
Over Discharge Current Protection	55.2A ± 1A
Over Discharge Current Release	Open loop
Short Circuit Protection	276A ± 25A
Balance Function	Yes

DRAWINGS



CHARGING CURVES

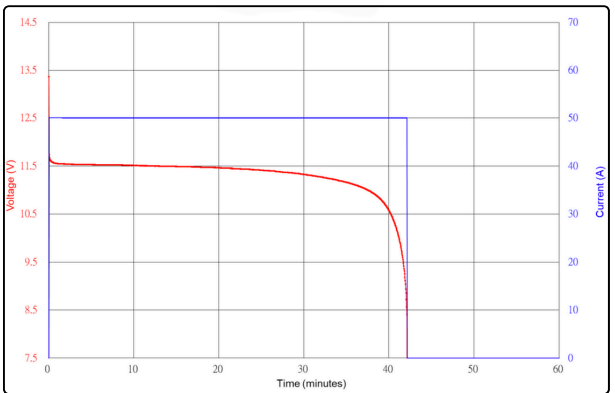
Charging profile: CC/CV mode, 14.4V charge voltage, 12A constant current, charge cutoff at 6A



Charge Current: 12A
Charge Time: 3 hrs

DISCHARGING CURVES

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



Discharge Current: 50A (1.4C)
Discharge Time: 0.7 hr
Temperature: 28°C increases to 54.8°C (26.8°C rise)