ST 12.8V 36AH Data Sheet



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)

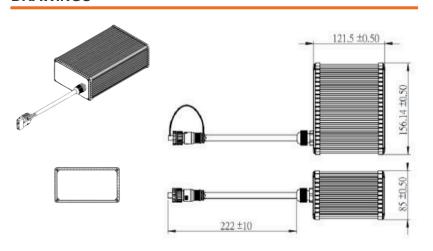
BATTERY SPECIFICATIONS

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	50A
	Н	3.4"	(85mm)	Current	(max: 55A, 1.3s)
Certification	UN38.3			Case	Aluminum

BMS SPECIFICATIONS

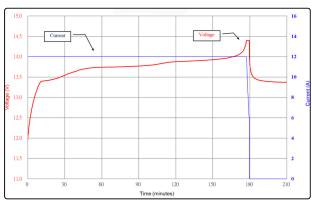
Over Charge Voltage Threshold	3.8V ± 0.025V/cell	
Over Charge Voltage Release	3.5V ± 0.03V/cell	
Over Discharge Voltage Threshold	2.2V ± 0.08V/cell	
Over Discharge Voltage Release	2.8V ± 0.10V/cell	
Over Discharge Current Protection	55.2A ± 1A	
Over Discharge Current Release	Open loop	
Short Circuit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

DRAWINGS



CHARGING CURVES

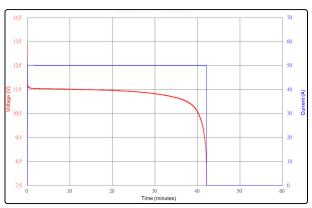
Charging profile: CC/CV mode, 14.4V charge voltage, 12A constant current, charge cutoff at 6A



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)

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