ST 25.6V 24AH-PN Data Sheet





25.6 V / 24Ah / 614.4Wh

TYPE & CHEMISTRY

Lithium Battery / Lithium Iron Phosphate

DIMENSIONS

7.6" (L) x 5.2" (W) x 6.7" (H)

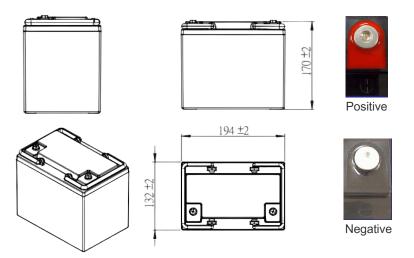
BATTERY SPECIFICATIONS

Model No.	ST 25.6V 24AH-PN				
Chemistry	LiFePO ₄ (LFP)			Pack Configuration	8S6P
Nominal Voltage	25.6 V			Charge/Discharge Connector	(+) and (-) Terminal
Capacity	24Ah			Pairing Charger	Available
Energy	614.4Wh			Indicators	N/A
Weight	5.7kg ± 0.3kg			Communication	N/A
Nominal Dimensions	W	5.2"	(132mm)	Charging Current	5A (max: 12A)
	L	7.6"	(194mm)	Cont. Discharge Current	30A (max: 50A)
	Н	6.7"	(170mm)		
Certification	UN38.3			Case	Plastic (PC/ABS)

BMS SPECIFICATIONS

Over Charge Voltage Threshold	3.8V ± 0.025V/cell	
Over Charge Voltage Release	3.4V ± 0.025V/cell	
Over Discharge Voltage Threshold	2.3V ± 0.025V/cell	
Over Discharge Voltage Release	3.3V ± 0.025V/cell	
Over Discharge Current Protection	52A ± 1A	
Over Discharge Current Release	30s	
Short Circuit Protection	200A ± 1A	
Balance Function	Yes	

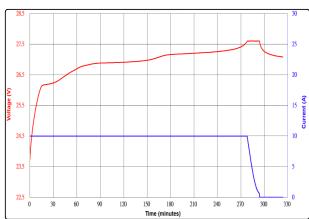
DRAWINGS



SoluThium Powered by LiCore®C

CHARGING CURVES

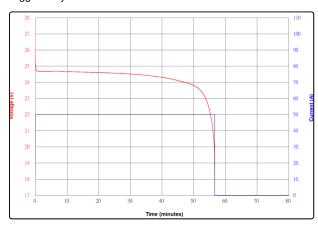
Charging profile: CC/CV mode, 27.6V charge voltage, 10A constant current, charge cutoff at $0.6\mathrm{A}$



Charge Current: 10A Charge Time: 4.8 hrs

DISCHARGING CURVES

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



Discharge Current: 50A (2C)
Discharge Time: 0.9 hr
Temperature: 29°C increases to 60.4°C (31.4°C rise)

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