

ST 48V 105AH Data Sheet

SoluThium

Powered by LiCore™ 80

NOMINAL VOLTAGE / CAPACITY / ENERGY

51.2 V / 105Ah / 5.38kWh

TYPE & CHEMISTRY

Lithium Battery / Lithium Iron Phosphate

DIMENSIONS

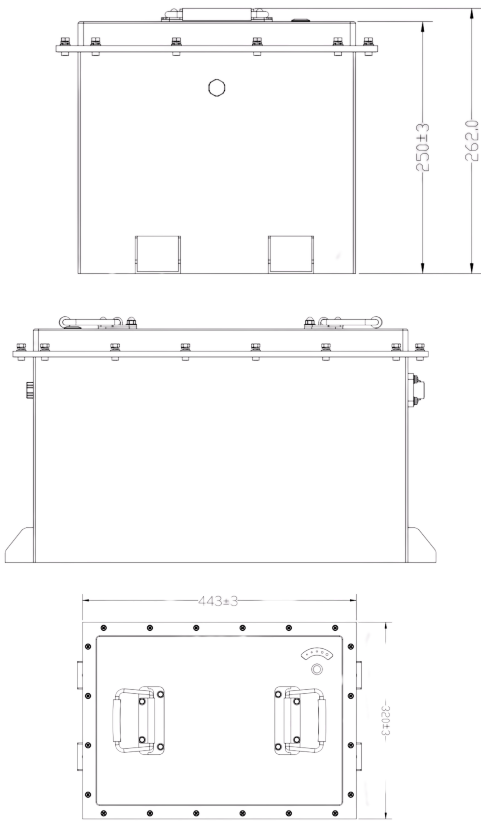
17.44" W x 12.60" L x 10.32" H



GENERAL BATTERY SPECIFICATIONS

Model No.	ST 48V 105AH		
Chemistry	LiFePO ₄ (LFP)	Internal Terminal	M8x1.25 -10mm
Nominal Voltage	51.2 V	Terminal Torque	90 lb-in (10 Nm)
Capacity	105Ah	Nominal Dimensions	W 17.44" (443mm)
Energy	5.38 kWh		L 12.60" (320mm)
Weight	~92.6 lbs (42kg)		H 10.32" (262mm)
Enclosure	Steel	BCI Group	N/A

DRAWINGS



CHARGING & DISCHARGING

Internal Warm-Up	Self-warm-up feature upon charging at sub-zero temperature
Max. Charging Current	105A
Max. Continuous Discharge Current	150A
1st Peak Discharge Current	250A, 30s
2nd Peak Discharge Current	300A, 10s
Low Voltage Cutoff	40V (Cell 2.5V)
High Voltage Cutoff	58.4V (Cell 3.65V)

CONNECTIVITY & COMMUNICATIONS

Parallel Connection	Series Connection	Communication Protocol	Bluetooth
Up to 10 units	Prohibited	CANBus 2.0A	Optional

ENVIROMENTAL CONDITIONS

Relative Humidity	<90%	Ambient Temperature Range	Charge: 0 to 50°C
Ingress Protection	IP67		Discharge: -10 to 60°C
			Storage: 10 to 35°C

CERTIFICATIONS

Shipping	Battery	Cell
UN38.3	Pending: UL2271, IEC62133	UL2580

ACCESSORIES

UL Certified Charger



CANBus Cable



Portable Battery Analyzer



Battery Reader



Bluetooth App

LiCore™ 80

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