

ST 48V 30AH GC2 Data Sheet

SoluThium

Powered by LiCore™ 80

NOMINAL VOLTAGE / CAPACITY / ENERGY

51.2 V / 30Ah / 1.536 kWh

TYPE & CHEMISTRY

Lithium Battery / Lithium Iron Phosphate

DIMENSIONS

7.1" W x 10.2" L x 10.7" H

BCI SIZE

GC2



GENERAL BATTERY SPECIFICATIONS

Model No.	ST 48V 30AH GC2		
Chemistry	LiFePO ₄ (LFP)	Internal Resistance	≤25mΩ (ref.)
Nominal Voltage	51.2 V	Service Life	>2000 cycles 80% DoD
Capacity	Typical: 30Ah at 0.5C, 20°C Min.: 29Ah at 0.5 C, 20°C	Internal Terminal	M8x1.25 -10mm
		Terminal Torque	88 lb-in (10 Nm)
Energy	1.536 kWh	Nominal Dimensions	W 7.1" (180mm)
Weight	~33 lbs (15kg)		L 10.2" (260mm)
BCI Size	GC2		H 10.7" (272mm)

CHARGING & DISCHARGING

Internal Warm-Up		Self-warm-up feature upon charging at sub-zero temperature
Charging Methodology	CC-CV	CC: Charge to 58.4V
		CV: Maintain 58.0V till I<0.1C
Max. Charging Current		60A
Max. Continuous Discharge Current		100A
1st Peak Discharge Current		150A, 15 sec
2nd Peak Discharge Current		440A, 20ms
Short Circuit Protection		560A, 366μs
Discharge Cut-Off Voltage		40V

CONNECTIVITY & COMMUNICATIONS

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

ENVIRONMENTAL CONDITIONS

Relative Humidity	<90%	Ambient Temperature Range	Charge: 0 to 55°C
Ingress Protection	IP67		Discharge: -20 to 60°C
			Storage: -20 to 35°C

CERTIFICATIONS

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

ACCESSORIES

UL Certified Charger



CANBus Cable



Portable Battery Analyzer



Battery Reader

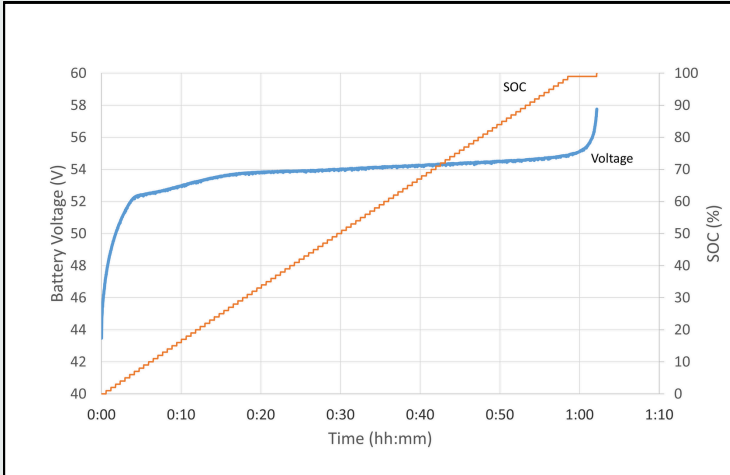


Bluetooth App

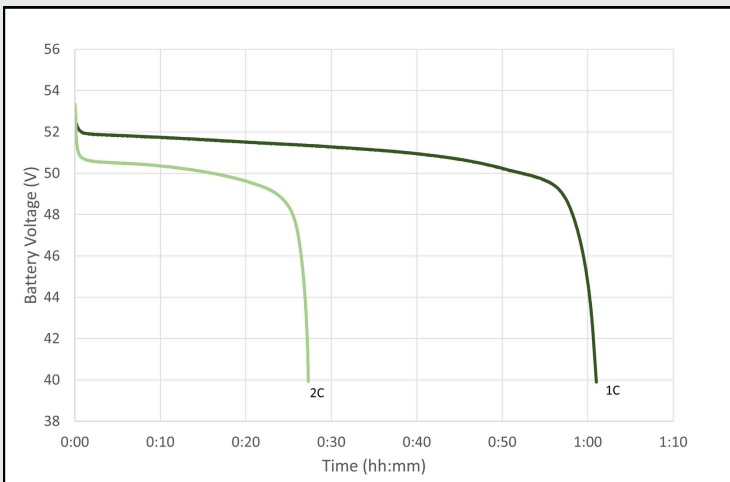
LiCore™ 80

CHARACTERISTICS

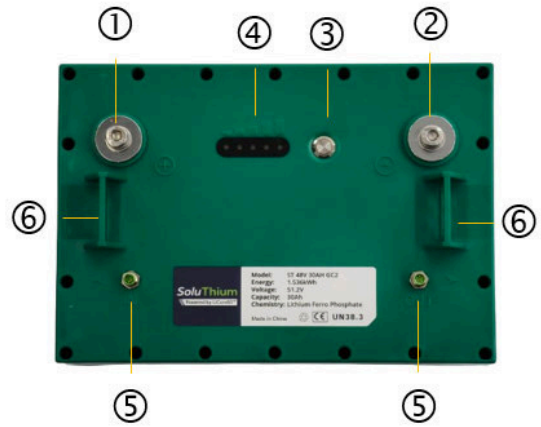
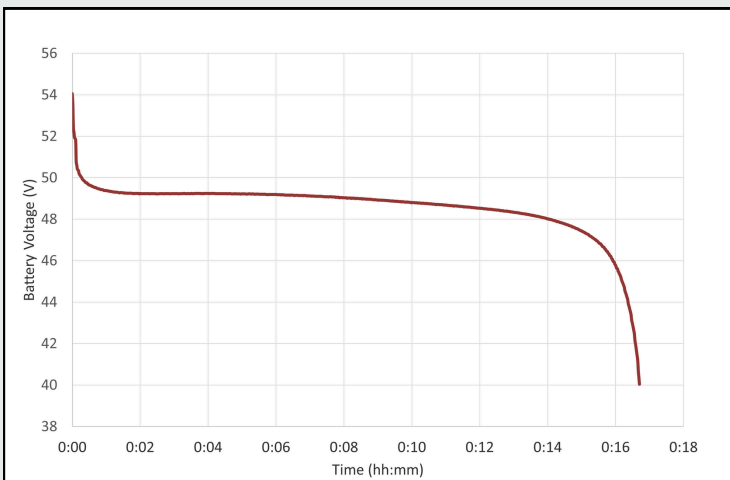
30A Charging Curves



1C and 2C Discharging Curves



100A Discharging Curve



- ① Positive Terminal
- ② Negative Terminal
- ③ Power Button
- ④ Fuel Gauge
- ⑤ CANBus Terminal (5 pin)
- ⑥ Brackets

