



## Safety

- Cylindrical LiFePO4 cells [ITR26-70/40E 4Ah, 26700] (UL1642)
- IEC62133 (cell), IEC62619(cell), UN38.3 (cell/pack)
- ROHS (cell), CE system certification, IP65 Rating

## Design

- Standard-size (BCI) ABS container for easy VRLA replacement
- Fast charge/discharge performance •
- Display & integrated controls
- Visual state-of-charge (SOC) •
- External fuse access
- Internal heating for -20°C(-4°F)~0°C(32°F) charging
- Bluetooth Connectivity & dedicated App
- Maintenance-free operation

### **Battery Management System (BMS)**

- Integrated hardware BMS inside
- Independent charge & discharge protection
- **Balance Protection** •
- Short-Circuit Protection, Over-Voltage Protection, Low-Voltage Protection, Over-Current Protection, Low-Temperature Protection, Over-Temperature Protection

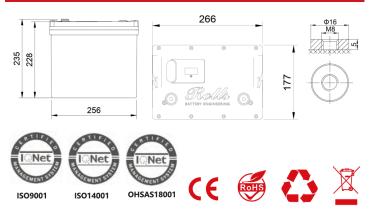
### **12V LFP Profile**

Specifications				
SAIGLOBAL ISO 9001 Quality	Weight	12 kg	26.5 lbs	
	Length	26.6 cm	10.47"	
	Width	17.7 cm	6.97"	
	Height Inc. Term.	23.4 cm	9.25"	

Product measurements & weights are calculated based on sample data. Individual specifications are subject to vary due to the manufacturing process & battery components.

Container	ABS
Cover	ABS
Handles	Integrated Top Mount
Internal BMS Model	4S100ATX-V2
Expected Cycle Life	>6000 @ 80% DOD, >3000 @ 100% DOD
Series Connection	4 UNITS MAX (48V)
Parallel Connection	4 UNITS MAX (48V) or 6 UNITS MAX (12V)
Connectivity	Up to 4S4P (in 48V configuration) or 1S6P (in 12V configuration)

# **Detailed Illustration**



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Series	S-Series LFP	Warranty	See Warranty Terms
Volts	12	BCI	G24
Terminal Type		M8	
Included Hardware		M8 stainless bolts & washers	

Charge		
Charge Voltage Range	14.0 - 14.6V	
Recommended End of Discharge Voltage	12.0 V	
End of Discharge Protection Voltage	10.0 V	
Recommended Charge Voltage	14.4 V	
Recommended Charge Current		
-20~0°C (-4-32°F)	0.1C	10A
0~10°C (32-50°F)	0.2C	20A
10~35°C (50-95°F)	0.5C	50A
35~50°C (95-122°F)	0.2C	20A

#### Charge Mode:

 Charge at recommend voltage & current by temperature until charge current drops to ≤ 0.05C (CC,CV) • DO NOT USE TEMPERATURE COMPENSATION

• No BTS (Battery Temperature Sensor)

Max Continuous Charge Current	100 A	
Max Continuous Discharge Current	100 A	
Surge Current Limit	800 A (300ms)	
Charge Temperature Range	-20°C~55°C (-4~131°F)	
Discharge Temperature Range	-20°~60°C (-4~140°F)	
Storage Temperature Range	-5°~45°C (23~113°F)	
Capacity		
Nominal Capacity	100 AH	

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Total Energy	1.28 kWh
Nominal Voltage	12.8 V