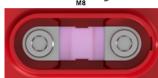


# **LIFEPO4 LITHIUM BATTERY**

# S12-300LFP









Series	S-Series LFP	Warranty	See Warranty Terms
Volts	12	BCI	8D
Terminal Type		M8	
Included Hardware		M8 stainless l	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	

End of Discharge Protection Voltage		10.0 V	
Recommended Charge Voltage		14.4 V	
	Recommended Charge Current		
	-20~0°C (-4-50°F)	0.1C	30A
	0~10°C (32-50°F)	0.2C	60A
	10~35°C (50-95°F)	0.5C	150A
	35~50°C (95-122°F)	0.2C	60A

#### 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	200 A	
Max Continuous Discharge Current	200 A	
Surge Current Limit	1100 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	300 AH
Total Energy	3.84 kWh
Nominal Voltage	12.8 V

#### Safety

- Cylindrical LiFePO4 cells [ITR26-70/46E 4.6Ah, 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 IOS & Android 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				
stem ✓	Weight	34 kg	75 lbs	
Sertified System	Length	52.2 cm	20.55"	
SAI GLOBAL	Width	26.8 cm	10.55"	
ISO 9001 Quality	Height Inc. Term.	23.2 cm	9.13"	

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	Rope / Plastic Handle
Internal BMS Model	4S200ATX-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**

