

Rechargeable Li-FePO₄ battery

12 V Super-Phosphate® Battery

High energy lithium iron phosphate battery

Saft's 12 V Super-Phosphate® battery is ideally suited for applications requiring exceptionally long life and reliable performance.

Benefits

- Excellent energy density and specific energy combined with proven long life
- Abuse tolerant electrochemistry
- Hermetically sealed cells
- Maintenance free battery
- Operates in any orientation
- No memory effect

Key features

- Very long run time
- Good re-charge capability
- Wide temperature range
- Very long cycle life
- Low heat generation
- Exceptionally high efficiency
- Built-in state-of-charge indicator
- SM Bus SBS 1.1 compliant
- Cell balancing for optimal performance
- RoHS/WEEE
- ISO 9001:2008 certified manufacturing
- Made in USA
- Standard connectors available; custom by request

Safety Features

- Incorporating several levels of redundant safety features to prevent abuse conditions such as over-charge, over-discharge, and short circuit
- Incorporating electronics for performance efficiency:
 - Charge/floating/discharge management
 - Cell balancing



Electrical characteristics

Typical capacity at C/5 rate at 25°C	41 Ah
Nominal voltage	13.2 V
Voltage range	15.2 V - 10.0 V
Energy	540 Wh
Recommended maximum discharge current at 25°C (Continuous)	20 A

Physical characteristics

Length	252 mm
Width	142 mm
Height	146 mm
Volume	5.2 l
Weight	5.9 kg

Operating conditions

Charging method	Constant current / Constant voltage
Charging voltage	15.2 ± 0.04 V
Recommended continuous charge current at 25°C	C/5 (8 A)
Maximum continuous charge current	C/2 (20 A)
Operating temperature**	
Discharge	-25°C to +60°C
Charge*	-0°C to +55°C
Storage and transportation temperature	
Recommended	+10°C to +35°C
Allowable***	-40°C to +70°C

*Fast charging may impact life - consult Saft for higher currents or lower temperature

**See Saft for extended range

***For shorter excursions

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