NPP

LFP12.8-70

LITHIUM

SERIES

Characteristics

General		
Nominal voltage		12.8V
Nominal capacity at 0.5C (at 25°C)		70Ah
Energy		896Wh
Charge efficiency at 0.5C (25°C)		98%
Discharge efficiency at 0.5C (25°C)		96.5%
Battery internal resistance (25°C)		≤30mΩ
Cycle life (25°C, 80% DoD)		≥6000 cycles
Capacity with temperature	45°C	103%
	25°C	100%
	0°C	80%
	-20°C	70%
Mechanical		
Dimensions	Length	260mm (10.24in)
	Width	168mm (6.61in)
	Height	208mm (8.19in)
	Total height	214mm (8.43in)
Terminal type		Cu
Color		Black
Weight		19kg (42lbs) ±2%
Wire & Cable Harness		Yes
Battery Location IEC 104-06		Indoorbattery
Cabinet		Optional
Temperature		
Recommended storage temperature		25°C±5°C (77°F±9°F)
Operating temperature range	Discharge	-20°C~60°C (-4°F~140°F)
	Charge	0°C~45°C (32°F~113°F)
	Storage	-20°C~45°C (-4°F~113°F)
Charging		
Charging voltage (at 25°C)		14.6V
Charging mode (25°C/77°F, 100Ah)		0.2C (14.6V) constant current charge to 14.6V, then constant voltage charge at 14.6V until the current drops to 0.05C. Rest 30 minutes, then charge again if voltage drops below 13.8V.
Maximum charging current		0.5C
Maximum charging voltage		14.6V
Charging in -5°C~0°C range		0.05C
Discharging		
Continuous discharge current		0.5C
Maximum pulse discharge current (200ms)		1.0C
Discharge cut-off voltage		9.0V
Self discharge rate (25°C)		≤3%/month
Communication & Interfacing		
Communication protocol (optional)		RS485
CAN (optional)		CAN(Canbus)(J1939)
Maximum number of parallel units		16 units (Max 1.12MWh)

Overview

100% Power Lithium-Iron Phosphate batteries offer superb improvements in characteristics compared to lead-acid technology. Due to the extended cycle and calendar life, LFP12.8-70 batteries give an excellent long-term investment for your applications. Powerful, lightweight, safe, and smart, the Lithium-Iron Phosphate batteries are the future of the energy storage and can take right now.

Features

Longer cycle life - Up to 10 times longer cycle life and 5 times longer float/calendar life than deep-cycle batteries.

More capacity - Provides up to 100% of usable energy capacity, compared to less than lead-acid batteries.

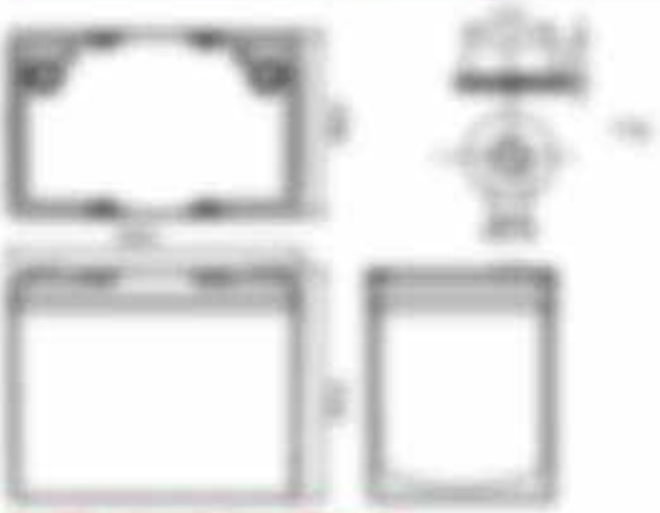
Lighter weight - Weighs 70% less than lead-acid batteries.

Faster charging - Charges much faster than conventional sealed lead-acid batteries.

Long cycle life - More than 6000 cycles at 100% depth of discharge.

Intelligent BMS - The battery management system monitors and adapts to battery conditions to maximize performance and safety.

Dimensions & Terminal Type (mm)



Certifications & Compliances

UN38.3

Compliance to UL pending

Specifications subject to change without notice and because we are constantly improving our products, these specifications may not be the most updated version.

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Guangdong NPP Power Co., Ltd.

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Rev. Definitive 01

Coming soon