S24-50LFP

LiFePO$_4$ BATTERY

Safety

- Prismatic LiFePO$_4$ cells offer longer cycle life & added safety
- IEC62133, UL, UN38.3 cell certification
- UN38.3, CE system certification IP65

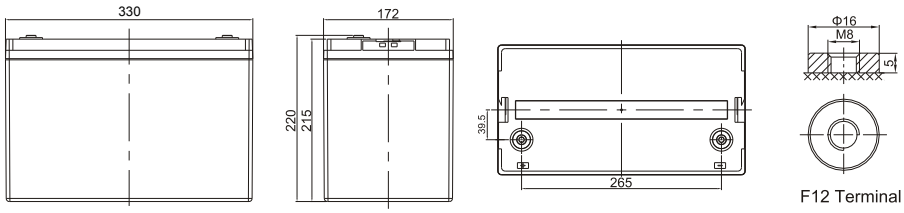
Design

- standard-size (BCI) ABS container for easy VRLA
- replacement Fast charge/discharge performance
- Maintenance-free operation

Battery Management System (bms)

- Integrated hardware BMS inside.
- Independent charge & discharge protection
- Over-Voltage Protection (OVP), Low-Voltage Protection (LVP) Over-Current Protection (OCP), Over-Temperature Protection (OTP)

Rolls long-life, high performance Lithium-Iron-Phosphate LiFePO$_4$ battery with exceptional cycle life and is up to 50% lighter than equivalent lead-acid battery models.



ISO9001 ISO14001 OHSAS18001

SPECIFICATIONS	S24-50LFP
PRODUCT DIMENSIONS: (LxWxH incl terminal)	330mm (13") x 172mm (6.77") x 220mm (8.66")
PRODUCT WEIGHT:	12.5 Kg / 27.5 Lbs
NOMINAL VOLTAGE: (V)	25.6V
NOMINAL CAPACITY: (AH)	50 AH
TOTAL ENERGY: (KWh)	1.28 KWh
END OF DISCHARGE VOLTAGE: (V)	22.4V
TERMINAL:	F12 (M8)
CYCLE LIFE:	>3500 @ 100% DOD
SERIES CONNECTION:	1 UNITS MAX
PARALLEL CONNECTION:	2 UNITS MAX

CHARGING			
CHARGE VOLTAGE RANGE: (V)	28.0-29.2V	*DO NOT USE TEMPERATURE COMPENSATION (BTS)	
RECOMMENDED CHARGE VOLTAGE: (V)	29.2V		
RECOMMENDED CHARGE CURRENT: (AMPS)			
0~5°C (32-41°F)	≤0.1C	5 A	
5~10°C (41-50°F)	≤0.2C	10 A	
10~35°C (50-95°F)	≤0.5C	25 A	
35~50°C (95-122°F)	≤0.2C	10 A	
CHARGE MODE:	CHARGE AT RECOMMENDED VOLTAGE & CURRENT BY TEMPERATURE UNTIL CHARGE CURRENT DROPS TO ≤ 0.05C (CC,CV)		
MAX CHARGE CURRENT	50 A		
MAX DISCHARGE CURRENT	50 A		
CHARGE TEMPERATURE RANGE:	0°C~50°C (32~122°F)		
DISCHARGE TEMPERATURE RANGE:	-20°~55°C (-4~131°F)		
STORAGE TEMPERATURE RANGE:	-20°~60°C (-4~140°F)		

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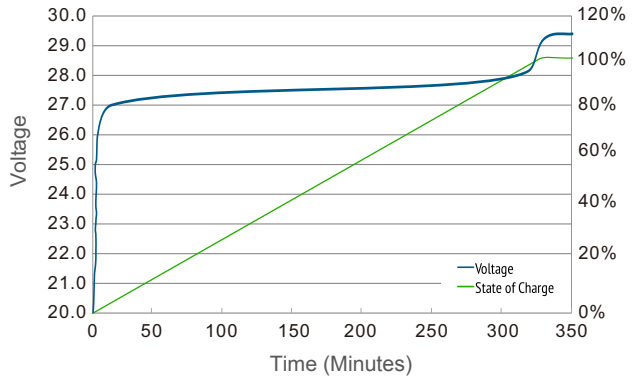
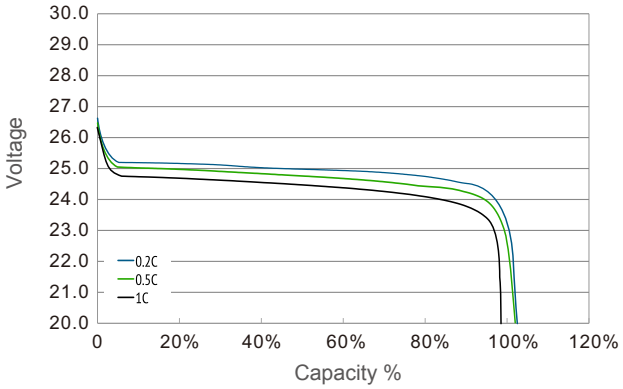
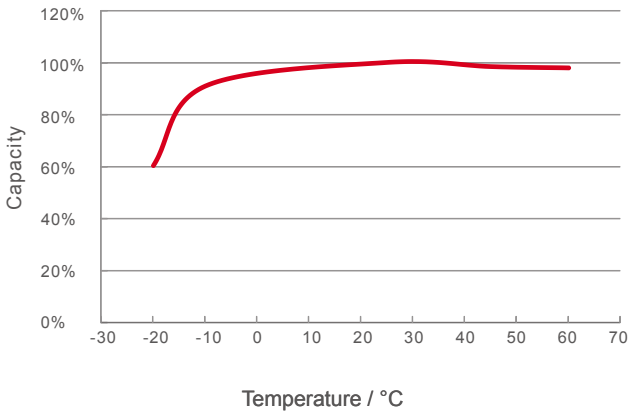
Charging Characteristics (0.5C @ 25℃)



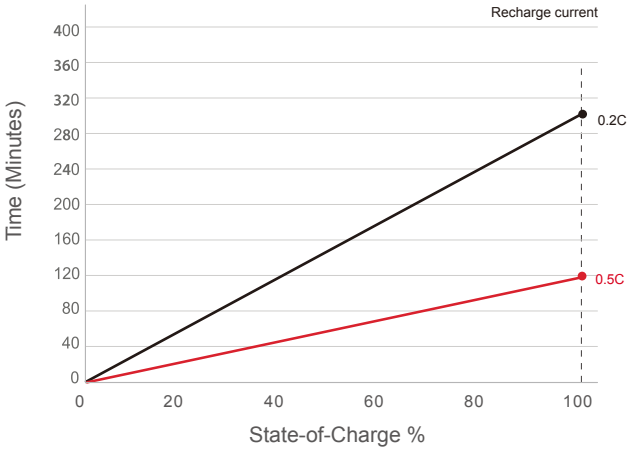
Discharge Characteristics (0.2C, 0.5C, 1C @ 25℃)



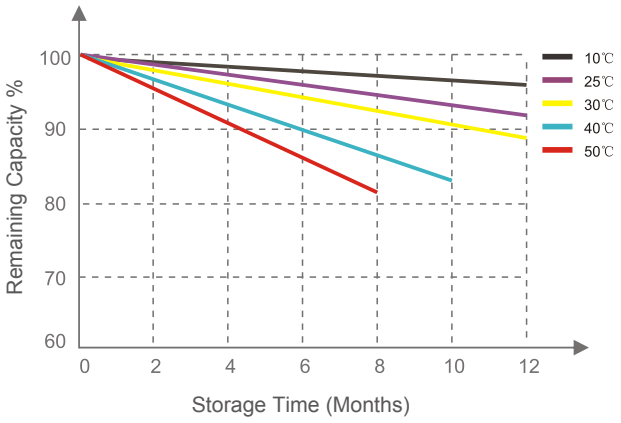
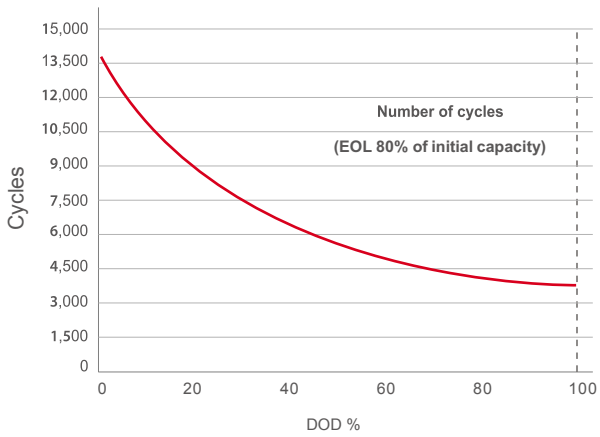
Temperature vs Capacity



Typical Charge Time



Self-Discharge by Temperature



Cycle Life vs Depth of Discharge (DOD)