

LITHIUM IRON PHOSPHATE BATTERY

Global Power lithium series batteries provide superior performance, capacities and reliability. Using state of high power cell technology, the lithium series is designed for environmentally sensitive areas that require enhanced cycle life capabilities in commercial.



Global Power lithium batteries are widely used in industrial, residential, commercial and private applications. The maintenance free construction and advanced design features makes the lithium series the definitive choice for a wide variety of markets. Like solar and renewable energy storage, electric vehicle, golf cart and industrial equipment, floor machines, forklifts, aerial lifts, and robotics; marine, RV, and no-idle solution; Mobility and Medical Equipment; Telecom, Broadband and Cable TV; UPS systems.

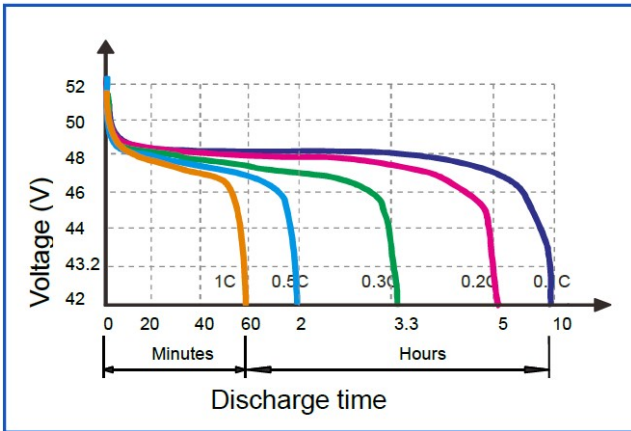
Specifications

Battery type-Chemistry	LiFePO4	Voltage Window	43.2V-52.5V
Nominal Voltage	48V	Recommend Charge Voltage	52.5V
Nominal Capacity	50Ah	Max Charge Voltage	54.75V
Energy Density	2400Wh	Recommend Charge Current	25A
Dimensions (LxWxH)	480*442*133mm	Max Continuous Current	50A
Weight	28kgs	Recommend Discharge Voltage	43.2V
Terminal Type	M6	Max Discharging Voltage	42V
Terminal Torque	8.5NM	Max Continuous Discharge Current	50A
Case Material	SPCC	Peak Discharge Current	100A/3S
BMS build-in	Yes	Cycle life (0.2C, 25°C@80% DOD)	6000 Cycles
AH Efficiency – round trip	>98%	Discharge Temperature	(-20 to 55)°C
Self-discharge per Month	<3%	Charge Temperature	(0 to 55)°C
Max in Parallel	16 PCS	Storage Temperature	(-20 to 45)°C
Max in Series	Not Allowed	Function (Optional)	<ul style="list-style-type: none"> • Bluetooth (App) • Heating Function • LCD Screen

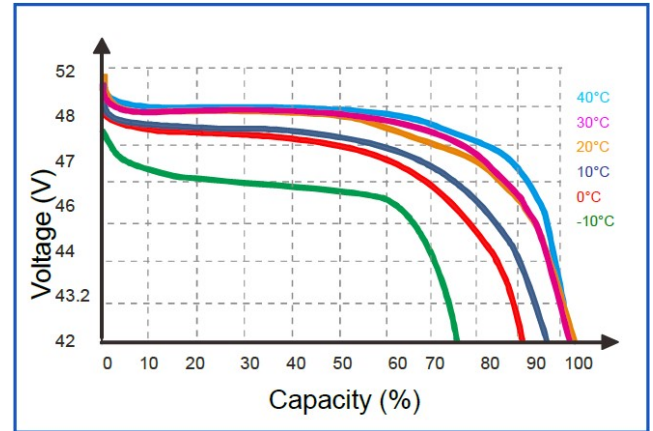
BMS Characteristics

Primary Charging Protection	Current: 55A	Delay Time: 20s
Second Charging Protection	Current: 60A	Delay Time: 2~3s
Primary Discharging Protection	Current: 60A	Delay Time: 30s
Second Discharging Protection	Current: 100A	Delay Time: 2~3s
Over Charge Voltage Protection	Voltage: 55.5V	Delay Time: 1~2s
Over Discharge Voltage Protection	Voltage: 42V	Delay Time: 1~2s
Temperature Protection	PCB	Temperature ≥95°C Recover ≤85°C
Communication Port	Major RS485, optional for CAN / Dry port, customized acceptable	

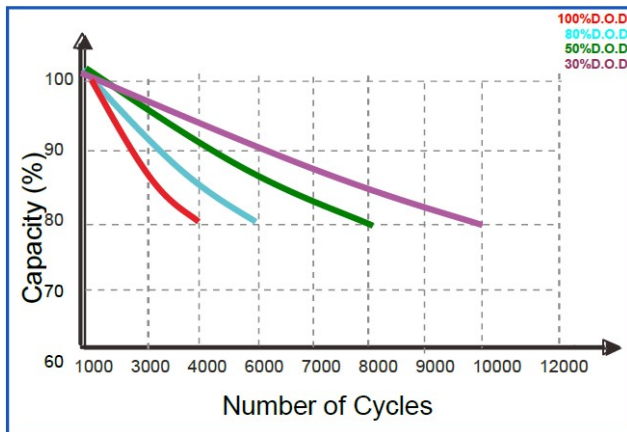
Discharge characteristics (25°C)



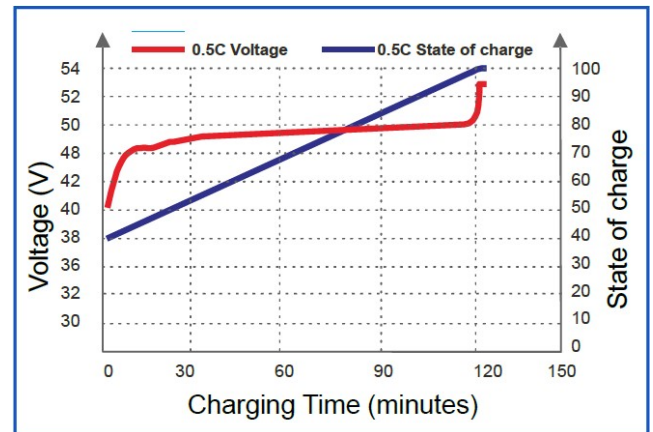
Different Temperature Discharge Curve (0.5C)



Different DOD Discharge cycle life Curve 0.2C 25°C



State of Charge Curve (0.5C, 25°C)



Constant Current Discharge Characteristics (A, 25°C)

Time (HR)	1h	2h	3h	4h	5h	10h	20h
Cut off voltage (43.2V)	50A	25A	16.7A	12.5A	10A	5A	2.5A

Constant Power Discharge Characteristics (Watt, 25°C)

Time (HR)	1h	2h	3h	4h	5h	10h	20h
Cut off voltage (43.2V)	2400W	1200W	800W	600W	480W	240W	120W

Note 1: When make parallel connection, please full discharge batteries, then recharge after parallel connected; when series connect, please keep batteries with same remain capacity.

Note 2: Parallel connection is only for longer backup time, not for larger output power.

**COMPATIBLE
INVERTER BRANDS**

Deye **GROWATT**  **Voltronic Power**

SOFAR  **SOLAR**  **victron energy**
BLUE POWER  **SMA**

 **PYLONTECH** **GOODWE** **Sacolar**

 **GINLONG** **LU X POWER** ^{TEK} **SUN**  **SYNK**

MUST **invvt**  **MEGAREVO**  **CEU
POWER**

 **SMK SOLAR**
Energy · Anytime · Anywhere  **SRNE**  **Sol-Ark**
LIMITLESS POWER

Tigo **SAKO**
LANKA  **solis** **DARFON**

 **ENPHASE** **phocos**  **CyboEnergy**