

LITHIUM IRON PHOSPHATE BATTERY Wall Mounted Energy Storage Battery



Introduction

The GBLW series battery, designed for general use with a service life of 15 years or more, is manufactured using advanced technologies and features an integrated intelligent BMS system for greater safety. Thanks to its SOC function and communication protocol, it is compatible with inverters from various brands.

Applications

- ◆ Power Generation System (Solar and Wind Power System, etc.)
- ◆ Household Energy Storage System
- ◆ Auto Control System & ATM Machine
- ◆ Electronic Apparatus and Equipment
- ◆ Emergency Light & Emergency Backup
- ◆ Power Supply & Alarm / Security System
- ◆ Communication Power & DC Power
- ◆ Electric Power System (EPS)
- ◆ Uninterruptable Power System (UPS)
- ◆

Dimensions



Technical Parameter

Battery Model	GBLW-51-100V2	Dimension	630(L)*420(W)*195(H)mm
Cell Model	IFpP50160118-100P3	Weight	Approx 50.0kg
Nominal Voltage	51.2V	Battery Cell Connection	16S1P
Nominal Capacity	100Ah(5.12KWh)	IP Protection Level	IP20
Charge cut-off voltage	58.4V	Charging Method	CC/CV
Discharge cut-off voltage	44.8V	Charging Temperature Range	0°C~45°C
Maximum Charging Current	100A	Discharging Temperature Range	-20°C~60°C
Maximum Discharging Current	100A	Storage Temperature	-10°C~45°C
Load Power	≤5120W	Self Discharge Rate	≤2% per month @25°C
Internal Impedance	≤30mΩ	Number of Cycles	≥6000 cycles at 80% DOD
Open Voltage	51.2V~52.8V	Adopted Standard	IEC62619 designation

Charge Performance

Recommended Charge Current	20A
Maximum Charge Current	100A@25°C
Peak Charge Current	110A (1S)@25°C
Recommended Charge Voltage	57.6V
BMS Charge Cut-Off Voltage	<58.4V (3.65V/Cell)
Reconnect Voltage	>53.28V (3.33V/Cell)
Balancing Voltage	<54.4V (3.4V/Cell)
Balancing Current	200mA

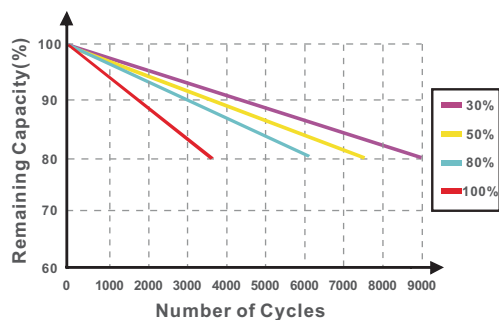
Discharge Performance

Recommended Discharge Current	20A
Maximum Continuous Discharge Current	100A@25°C
Peak Discharge Current	110A (1s)@25°C
BMS Discharge Cut-Off Current	180A (500ms)
Recommended Low Voltage Disconnect	44.8V (2.8V/Cell)
BMS Discharge Cut-Off Voltage	43.2V (2.7V/Cell)
Reconnect Voltage	>47.2V (2.95V/Cell)
Short Circuit Protection	200~800us

Characteristics Curve

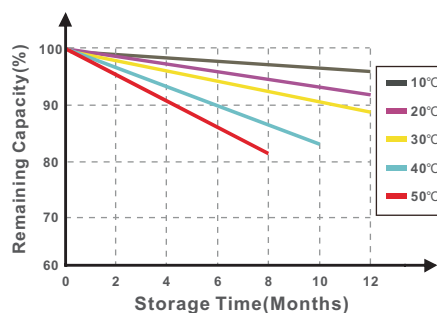
Cycle Life Curve

Different DOD Discharge Cycle Life Curve @25°C



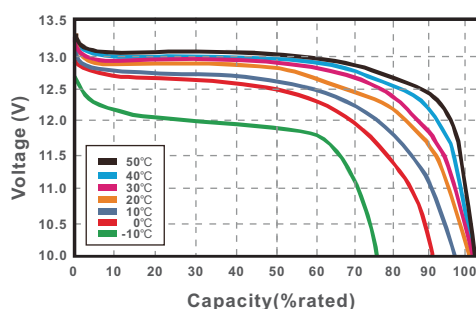
Self Discharge Characteristics Curve

Different Temperature Self Discharge Curve



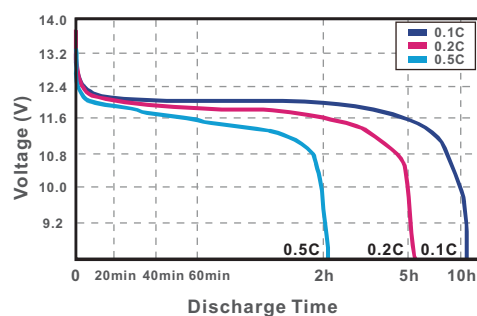
Different Temperature Discharge Curve

Different Temperature Discharge Curve @0.5C



Different Rate Discharge Curve

Different Rate Discharge Curve @25°C



Features



Grade A Cells

6000

More Than 6000 Cycles
@ DOD 80%



LED Screen For Real
Time Monitoring



With State of Charge



Support high
power discharge



Parallel connection: 15pcs
max., 6-8PCS suggested.

