GIMBORN TRADING

Power to you

GCELL BATTERY

Lithium LiFePo 4

Why our battery?

When you choose a Lithium battery, costs are always a point of concern. Do I need a BMS? Is it compatible with my charge controller? What about my Inverter? Which communication cable do I need? What is the maximum amount of lithium batteries for parallel connection?

Important technical details to know before you even start to go on calculations on your project. As we are aware of all these questions, we focused on a simple design that fulfills the requirements on the market. From a small cabin for the weekend to bigger systems on farms, restaurants and hotels located off-grid.

The GCell LiFePo4 battery was designed for all these requirements. It is easily scalable and does not need any kind of communication, which makes this storage one of the unique solutions in the solar market.

Built-in BMS

see next page

GCell Battery LiFePo4	48 V	24 V
Nominal Voltage	51,2 V	25,6 V
Nominal Capacity	11,7 kWh	5,8 kWh
	228 Ah	
Discharge Cut-Off	48 V	24 V
Charge Current	60 A	
Cont. Discharge	60 A	
Peak Discharge	100 A (inst)	
Charge Temp.	0°C to 45°C	
Discharge Temp.	-10°C to 55°C	
Life Cycle	≥8000 times	
Communication	Built in BMS, no external communication needed	

- Compatible with all Inverter / Charger & MPPT*
- No communication needed
- Unlimited parallel connection

Weights & Dims		
Size (cm)	52x25x52	50x20x45
Weight (kg)	88	44

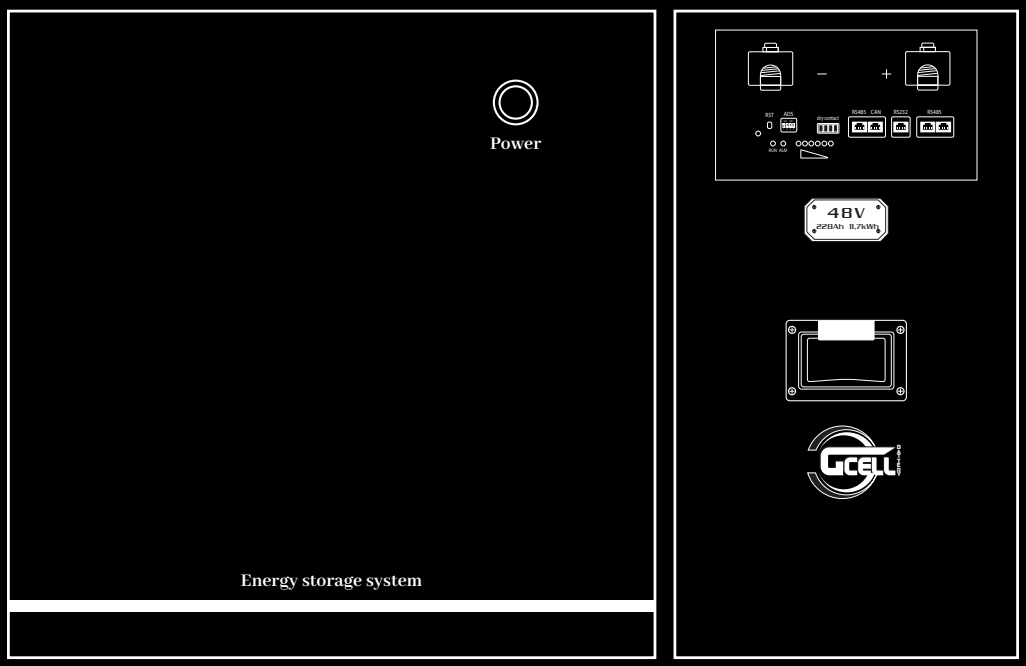
Solar Charge Controller Settings	48 V	24 V
Re-Bulk	51,6 V	25,8 V
Bulk / Absorb	54,8 V	27,4 V
Absorb Time	6 min	
Float	54,2 V	27 V
Equalize	Disabled	
Temp. compensation	Disabled	

Inverter Battery Charger Settings	48 V	24 V
I. Low Voltage disconnect	48 V	24 V
I. Generator start voltage	50 V	25 V
I. Generator stop voltage	54,4 V	27,2 V

* Inverter/Charger & MPPT must be programmable in charging values

Built-in BMS
High Quality Battery Monitor System

Each battery comes with a complete battery monitoring system and protection module to ensure safety and manage the proper charging process.



Built-in Features

- CHARGING CELL CONTROL
- OVER CURRENT DETECTION
- MAXIMUM CURRENT CONTROL
- SHORT - CIRCUIT DETECTION
- DEEP DISCHARGE VOLTAGE DETECTION
- VOLTAGE BALANCING PER CELL
- OVER CHARGE VOLTAGE DETECTION

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