



EKG

# Pouch Cells LiFePO4 Powerwall Batteries

## EKG-5KW



### Middle East /Africa Market

EKG battery BMS supports simultaneous communication and docking with multiple inverter brands



## EKG-10KW



### North and South American Market

EKG battery BMS supports simultaneous communication and docking with multiple inverter brands



## Super Points: ONE Battery For Multiple Brand Inverters

### Product advantages

#### Long cycle life

Using high-quality lithium iron phosphate batteries, the cycle life is more than 4000 times at 80% DOD, and can be used for 6-8 years



#### High quality lithium iron phosphate battery

Higher capacity, higher current, longer life

#### Low internal resistance and high current

Low internal resistance of the battery, excellent continuous high current discharge performance



#### Intelligent BMS battery protection

Built-in intelligent BMS (battery management system), effectively avoiding overcharge, overdischarge, overcurrent, short-circuit, balance and other problems



#### Communicated with multiple brands inverter same time

EKG battery BMS supports simultaneous communication and docking with multiple brands inverter

#### Good safety performance

Extreme safety test, no fire, no explosion, no leakage

## KEY FEATURES

- ★ Automotive Grade Cells-16 cell **configuration**
- ★ Integrated CAN bus RS485 BMS.
- ★ LED display shows battery Power.
- ★ **Pre-configured with optimal** parameters.
- ★ No other LiFePO4 battery offers this functionality, longevity and warranty at our price.
- ★ Warranted for daily cycling.
- ★ **Communicated with inverter brand:**  
SMA, Studer, Solar-Edge, Schneider, DEYE, Solis, Sungrow, Growatt, Sofar, Must, Sol-Ark, Sunsynk Voltronic, Victron and etc

## Application

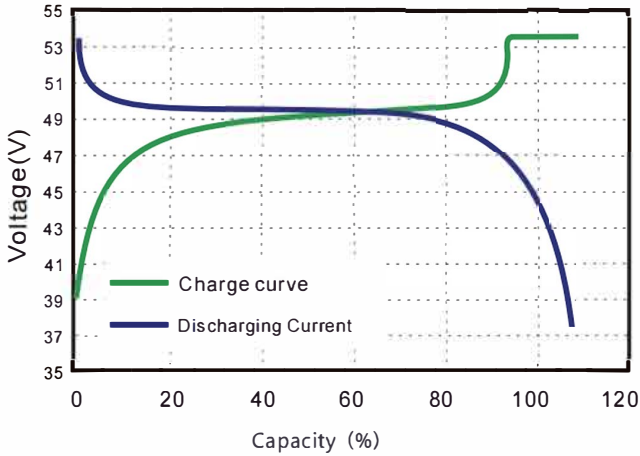
- ★ Over charge detection function
- ★ Over discharge detection function
- ★ Over current detection function
- ★ Temperature protection function
- ★ Short circuit detection function
- ★ Balance function
- ★ Upper computer software monitor
- ★ LCD Screen optional

## Parameters

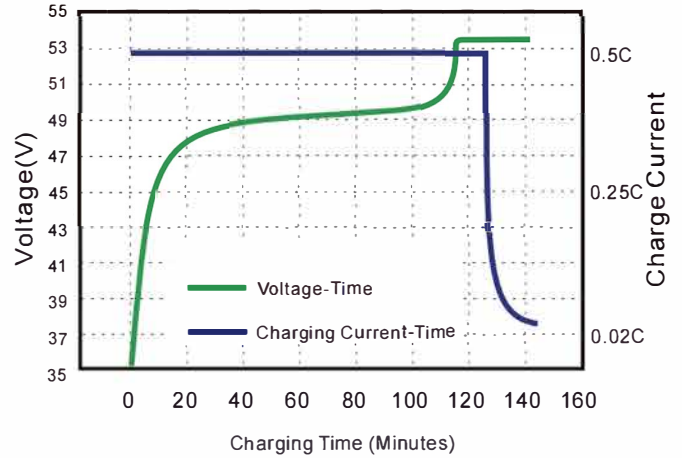
Product model	EKG 5	EKG 10
Product specification	48.0V100Ah	48.V 200Ah
Nominal voltage	48.0V	48.0V
Nominal capacity	100Ah	200Ah
Celltype	(LFP)	(LFP)
Standard charge voltage	54.8V	54.8V
Max charge current	100A	100A
Discharge cut-off voltage	40.5V	40.5V
Max discharge current	100A	100A
Parallels Function	Support 14 units in parallels	Support 14 units in parallels
Communication interface	RS485、RS232、CAN	RS485、RS232、CAN
Cycle life	≥ 4000 Cycles (80%DOD)	≥ 4000 Cycles (80%DOD)
Charge temperature range	0~60°C	0~60°C
Discharge temperature range	-20~55°C	-20~55°C
Colour	(Grey /Silver)	(Grey or white)
Dimensions	560*375*152MM	575*440*195MM
Weight	<40Kg	<68Kg
Installation method	(Wall mounted)	(Wall mounted)

### Charging and Discharge curve

● Charge and discharge curve@0.5C 25°C

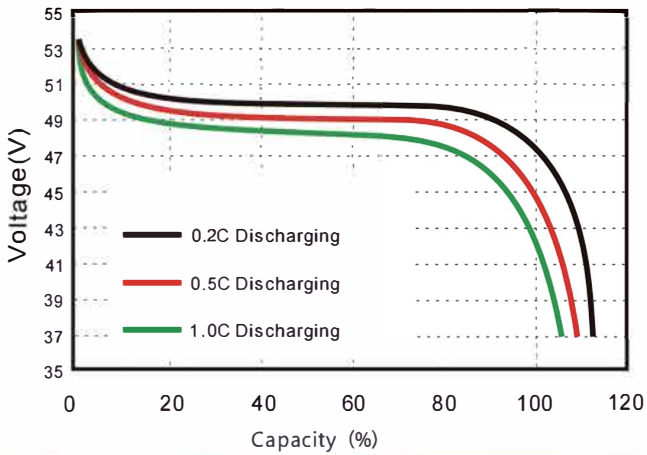


● Charging Characteristics @0.5C 25°C

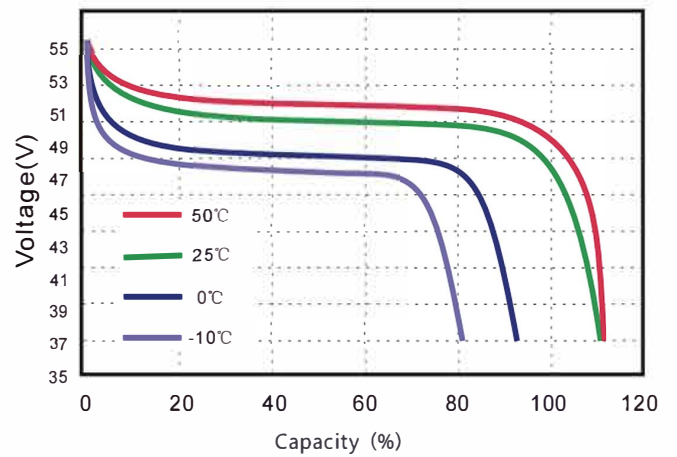


### Different current/Temperature Discharge curves

● Different Rate Discharge Curve @25°C

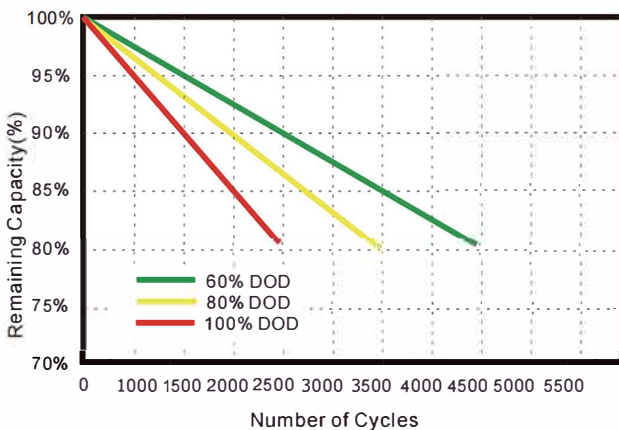


● Different Temperature Discharge Curve @0.5C

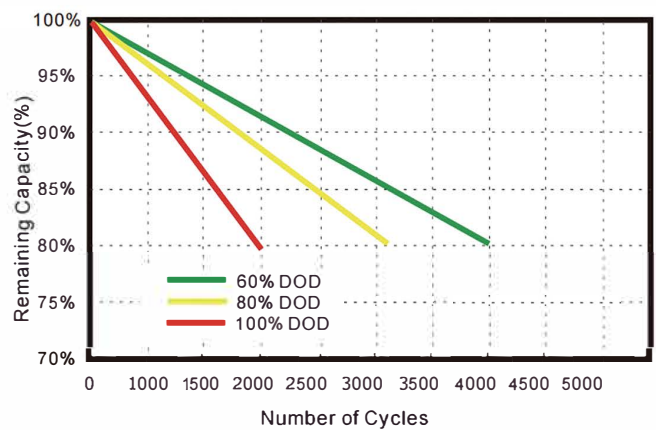


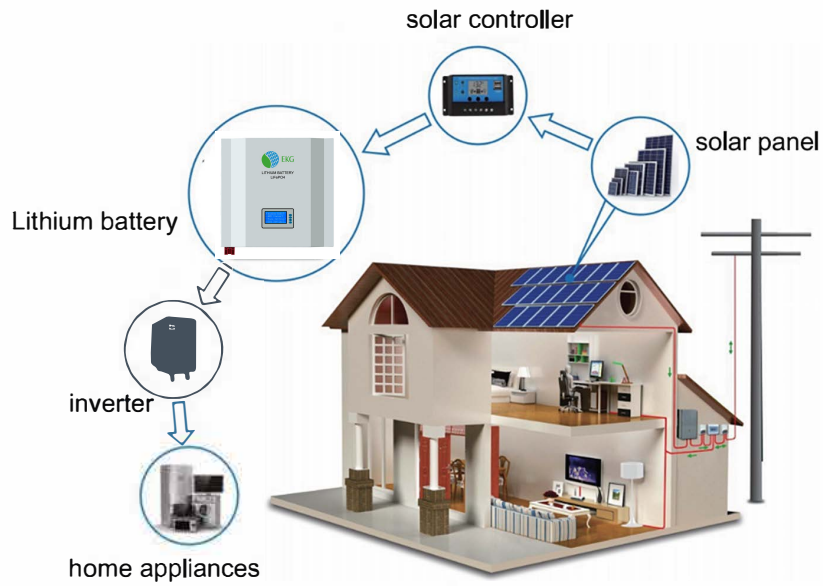
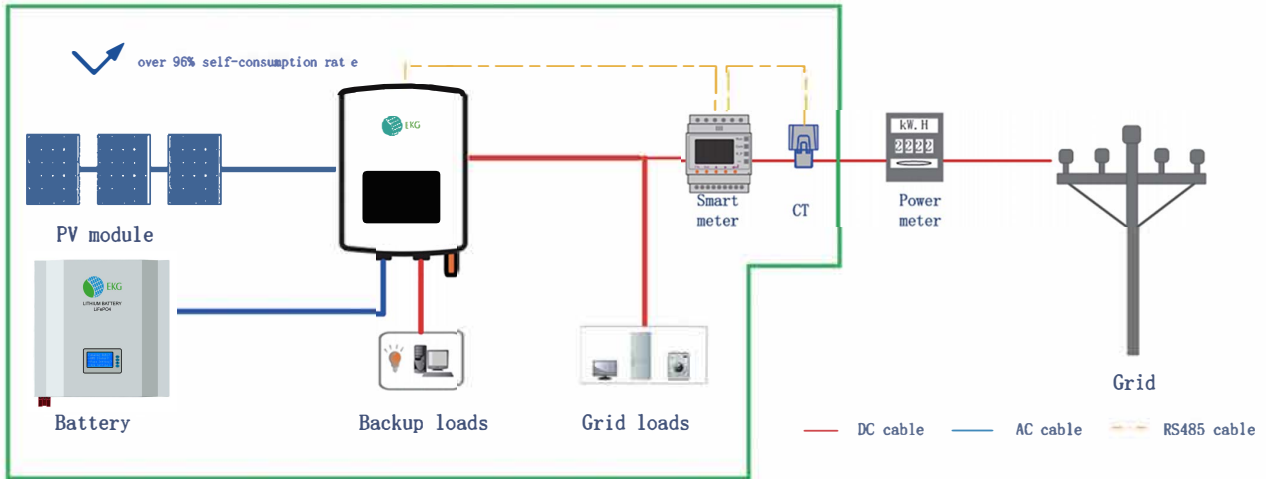
### Cycle Life Curve

● Different discharge depth life curves & 25°C 0.5C



● Different discharge depth life curves & 40°C 0.5C





### Product Application

