



# DATA SHEET

## KH 48-50LFP

### KEHENG 48V 50Ah LiFePO4 LITHIUM BATTERY

Crafted out of Lithium Iron Phosphate (LiFePO4) technology, this is a battery built to last. With 3,000+ recharge cycles (and up to 7,000 @50%DOD) the 50Ah provides 5 X the lifespan than your typical SLA battery. Built in smart BMS which can realize real-time monitoring the battery, Compatible with inverters of multiple brands, which can support 16 units parallel connection.

#### SPECIFICATIONS

Nominal Voltage	51.2V
Rated Capacity	50AH @0.2C to 40V
Stored energy	2560Wh
Cycle life@100%DOD	>3000 Cycles@100%DOD >4000 Cycles@80%DOD >7000 Cycles@50%DOD
Approx. Weight	31.5 kg
Internal Resistance	≤80.0 mΩ
Max. Charge Current	25 A
Max. Discharge Current	50 A
Charge Cut-off Voltage	58.4V
Discharge Cut-Off Voltage	40V
Dimensions	L483mm×W400mm×H133mm
Series & Parallel Connection	Maxium 16 units in parallel Connection
Operating Temperature Range	
Charge	32°F (0°C) to 113°F (45°C)
Discharge	-4°F (-20°C) to 140°F (60°C)
Storage	-4°F (-20°C) to 140°F (60°C)
Self-Discharge Rate	≤3%/month @ 25° C
Life Expectancy (years)	10 years @ 25° C
Communication Port	RS485, RS2332, CAN



#### COMPLIED STANDARD

- ✓ IEC 62133
- ✓ UL 1642
- ✓ ISO9001
- ✓ ISO14001
- ✓ UN38.3
- ✓ RoHS

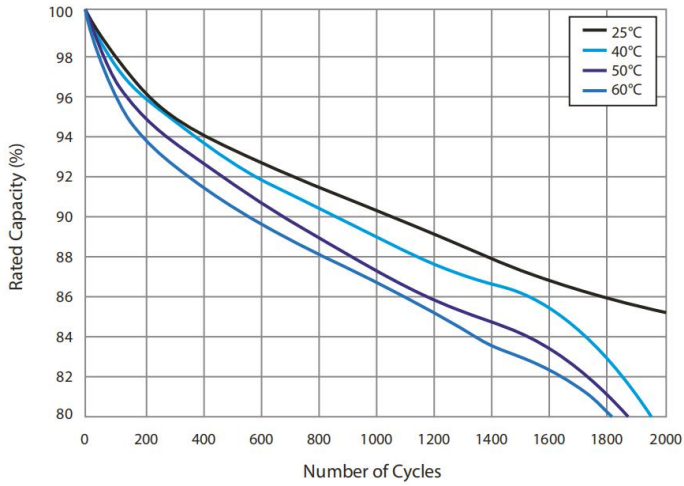
#### INTELLIGENT BMS FUNCTION

- Over charge protection functio
- Over discharge protection function
- Over current protection function
- Short-circuit protection function
- Temperature protection function
- Cell Balance function
- Communicate function
- Alarm function

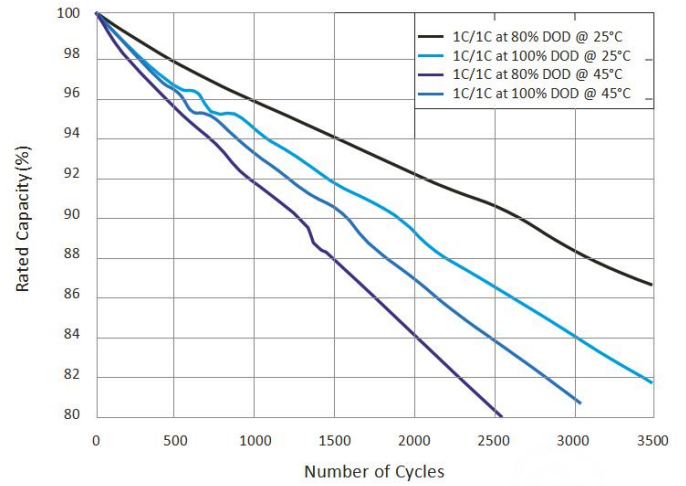
#### APPLICATIONS

RESS    BESS    Back-up system    Data center    Telecon    Energy storage system

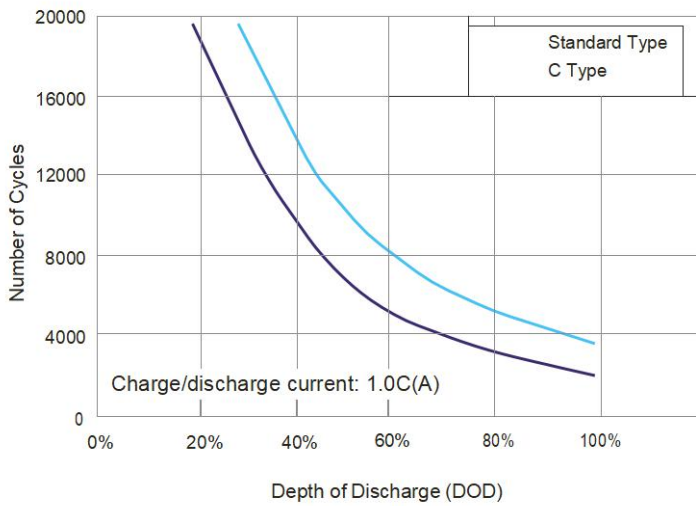
## CHARACTERISTIC CURVE



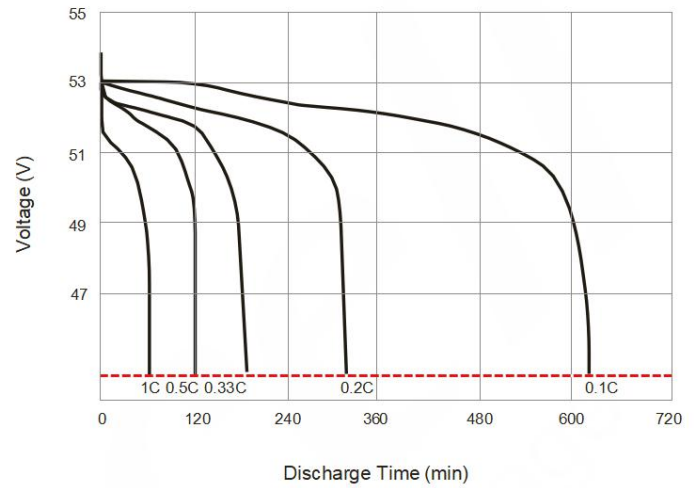
**100% DOD Cycle Curves at Different Temperatures**



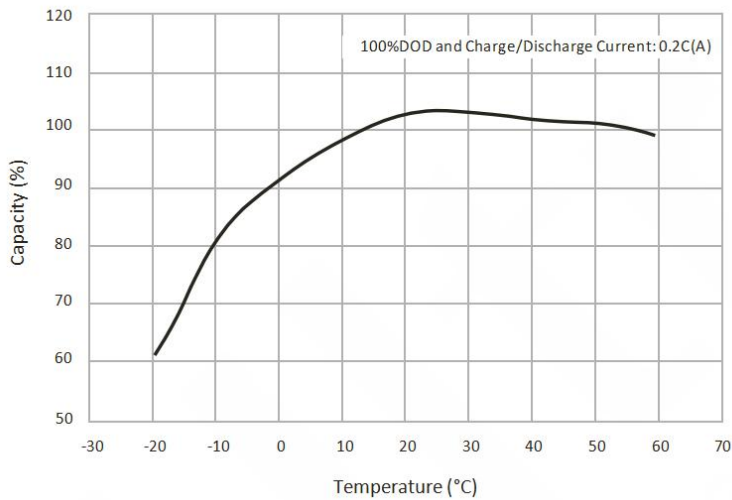
**1C Cycle Curves at Different DOD & Temperatures**



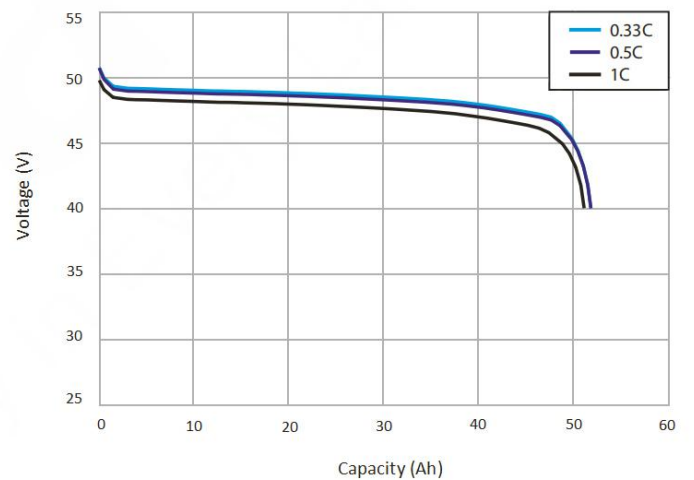
**DOD in Relation to Cycle Life (25°C)**



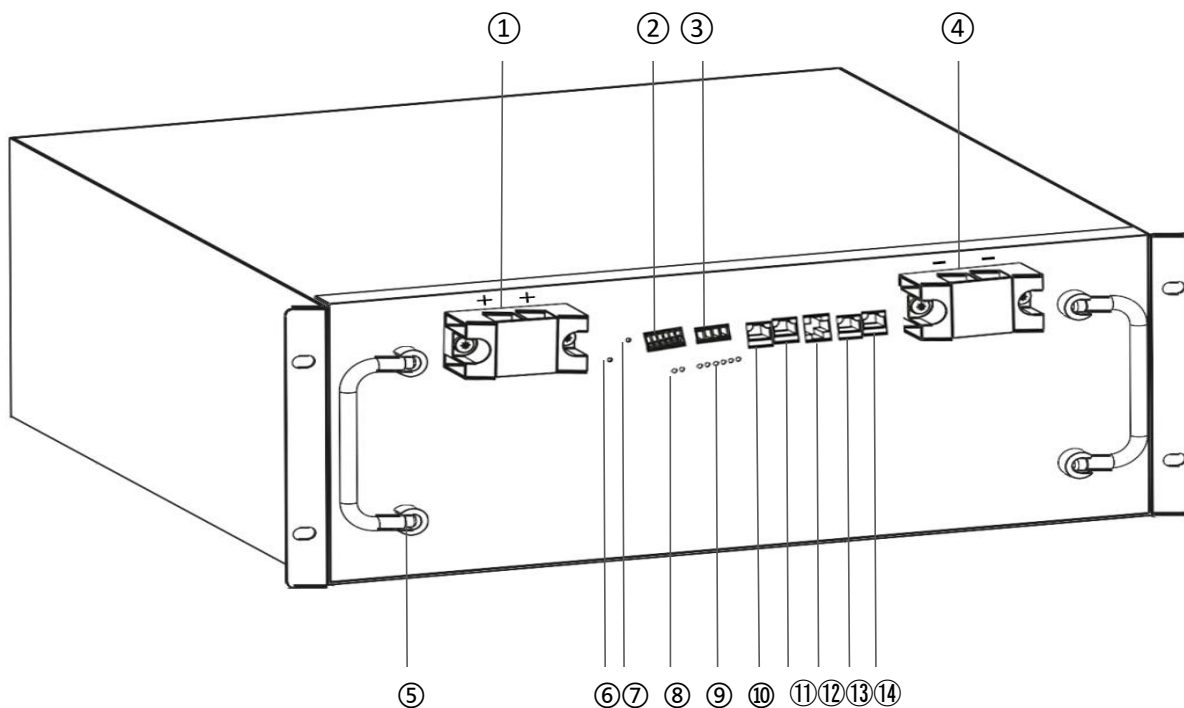
**Discharge Time in Relation to Discharge Rate (25°C)**



**Temperature Effect in Relation to Battery Capacity**



**Discharge Capacity in Relation to Discharge Rate**



① Positive Terminal

② ADD Dialer

③ DRY CONTACT

④ Negative Terminal

⑤ SS Handle

⑥ ON/OFF Button

⑦ Reset Key

⑧ Run Indicator Light

⑨ Electricity Volume Indicator

⑩ RS485 Port

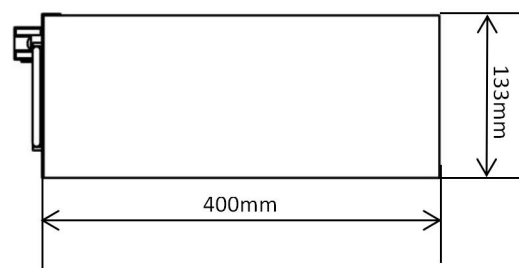
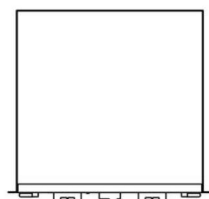
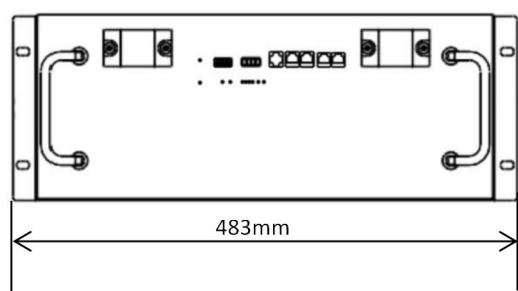
⑪ CAN Port

⑫ RS232 Port

⑬ RS485 Port

⑭ RS485 Port

#### BATTERY DIMENSIONS



**Keheng New Energy Technology (shenzhen) Co.,Ltd**

Floor 8, D8 Bldg,Lang kou Industrial Park, Long hua District, Shenzhen,china

Tel:+86 0755-21044322

Fax: +86 0755-21044322

Website:www.keheng-battery.com

Email:info@keheng-battery.com

