|  |  |
| --- | --- |
| Nominal Voltage | 51.2V |
| Rated Capacity | 50AH @0.5C to 40V |
| Stored energy | 2400Wh |
| 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  Discharge  Storage | 32°F (0°C) to 113°F (45°C)  -4°F (-20°C) to 140°F (60°C)  -4°F (-20°C) to 140°F (60°C) |
| Self-Discharge Rate | ≤3%/month @ 25°C |
| Life Expectancy (years) | 15 years @ 25°C |
| Communication Port | RS485, RS2332, CAN |



**KH-ES4850**

www.keheng-battery.com

**DATA SHEET**



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.

**KEHENG 48V 50Ah LiFePO4 LITHIUM BATERY**

**BATTERY**

**SPECIFICATIONS**



**COMPLIED STANDARD**

* IEC 62133
* UL 1642
* ISO9001
* ISO14001
* UN38.3
* RoHS
* Over charge protection function
* Over discharge protection function
* Over current protection function
* Short-circuit protection function
* Temperature protection function
* Cell Balance function
* Communicate function
* Alarm function

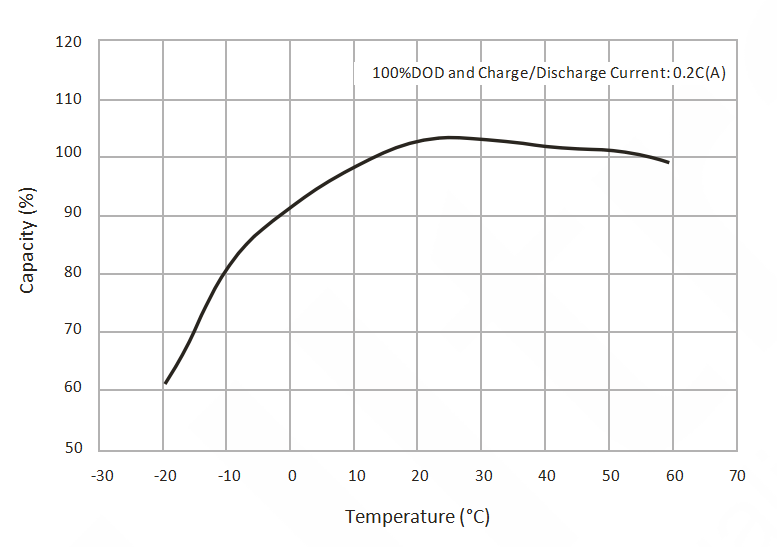
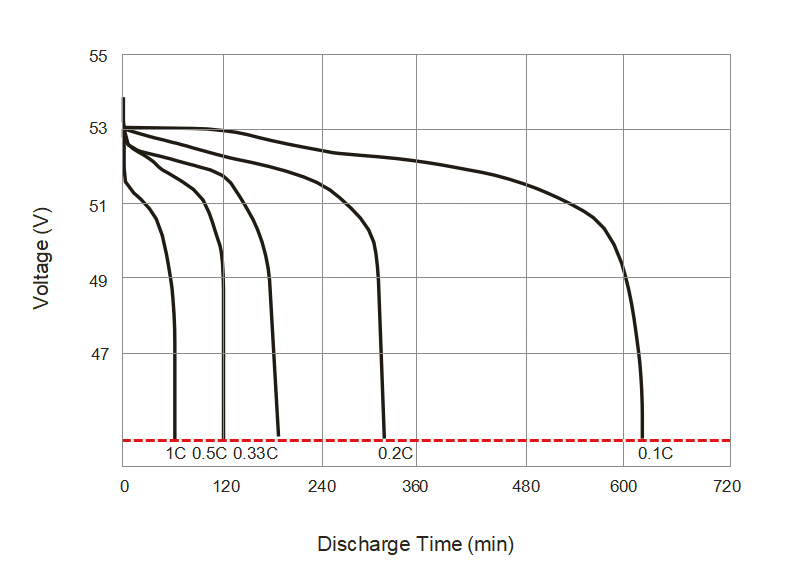
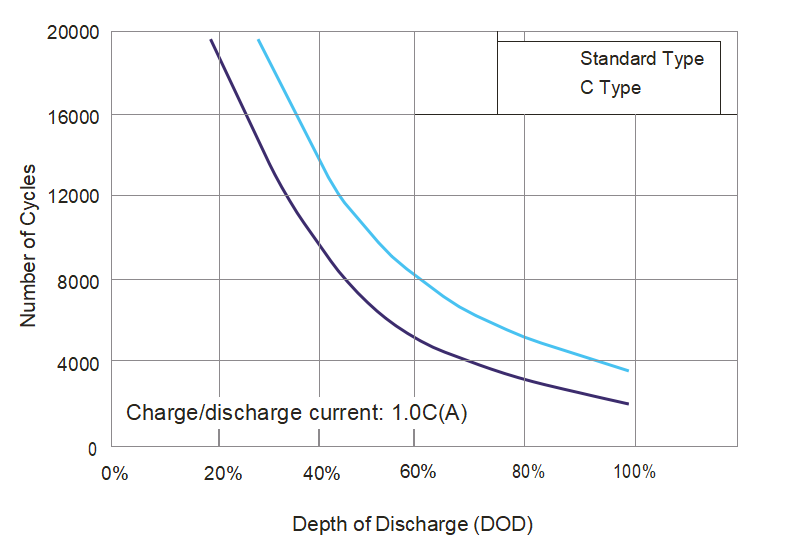
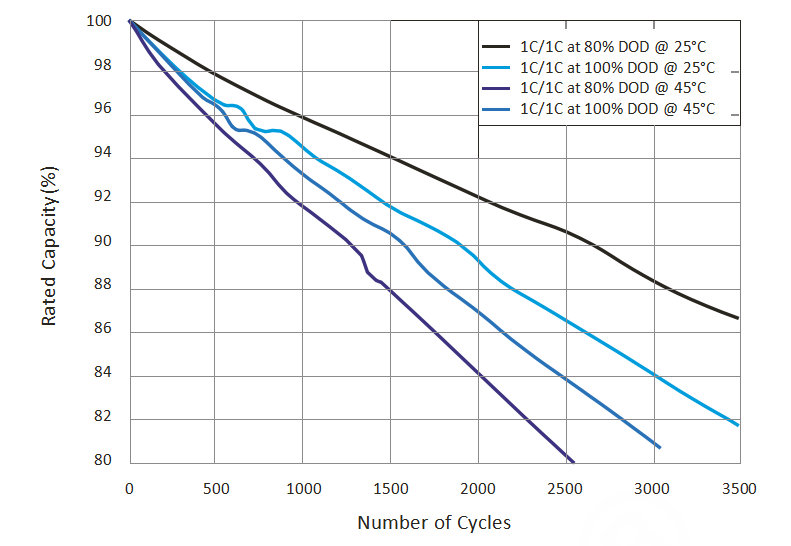
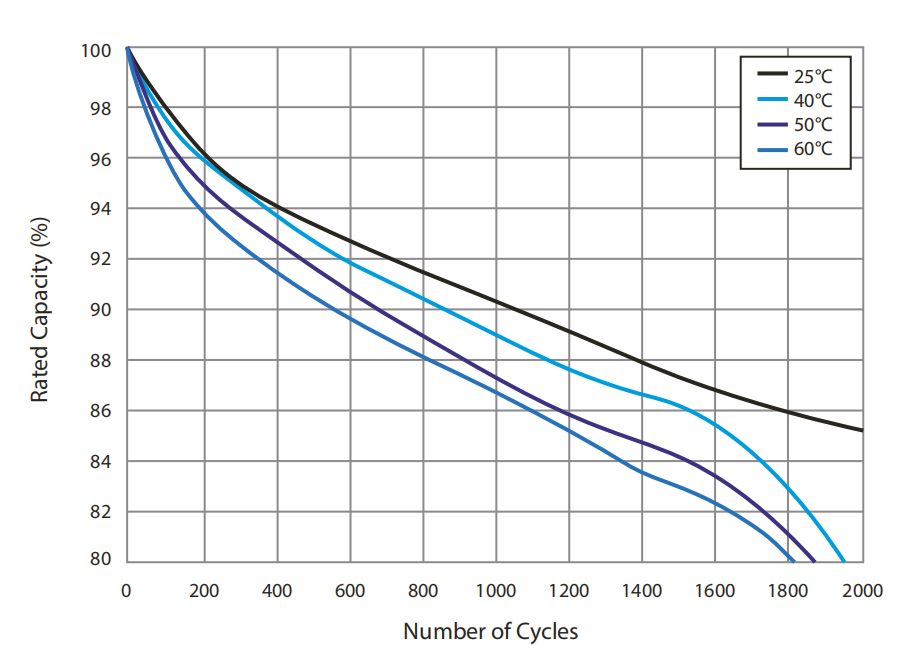
**INTELLIGENT BMS FUNCTION**

**APPLICATIONS**

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

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1/3

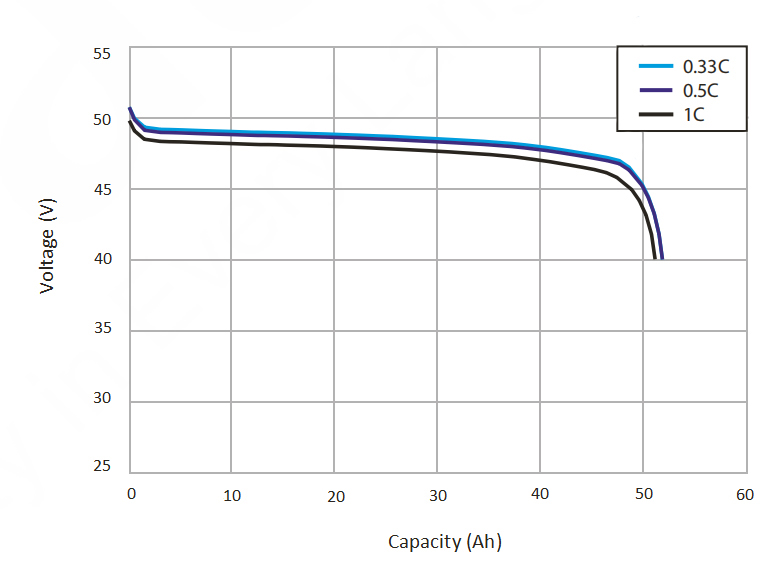


# ***100% DOD Cycle Curves at Different Temperatures* *1C Cycle Curves at Different DOD&Temperatures***

# ***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***

**CHARACTERISTIC CURVE**



2/3

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① ② ③ ④

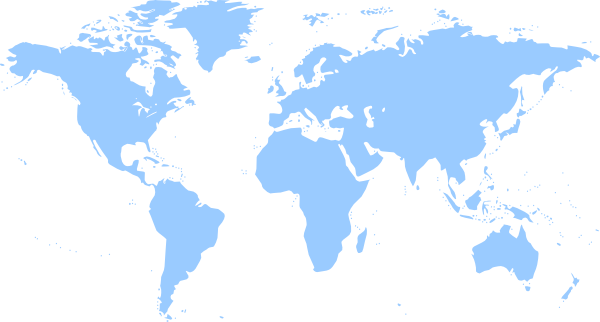
⑤ ⑥⑦ ⑧ ⑨ ⑩ ⑪⑫⑬⑭

①Positive Terminal ②ADD Dialer ③DRY CONTACT ④Negative Terminal

⑤SS Handle ⑥ON/OFF Button ⑦Reset Key ⑧Run Indicator Light

⑨Electricity Volume Indicator ⑩RS485 Port ⑪CAN Port ⑫RS232 Port

⑬RS485 Port ⑭RS485 Port



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**BATTERY DIMENSIONS**

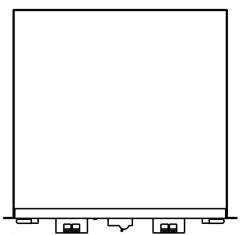
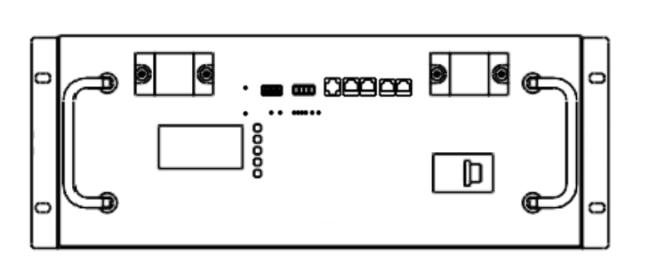
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483mm



400mm

133mm

3/3