

HYXinbattery Rack Series Battery Packs

Data Parameters HYX-4850R1

HYXinbattery 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

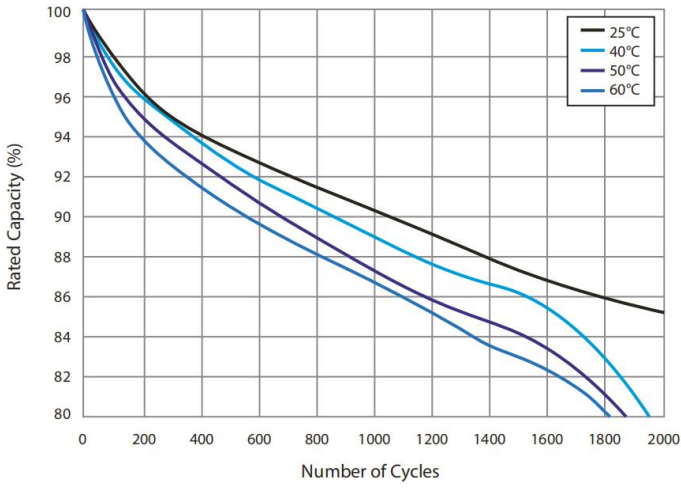
INTELLIGENT BMS FUNCTION

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

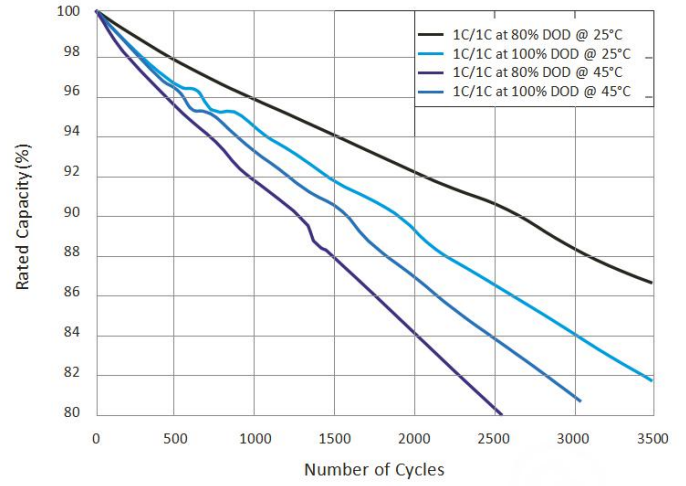
APPLICATIONS

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

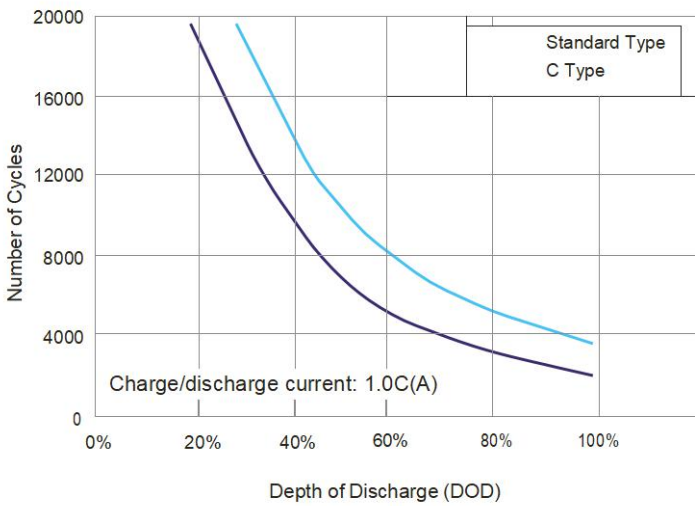
CHARACTERISTIC CURVE



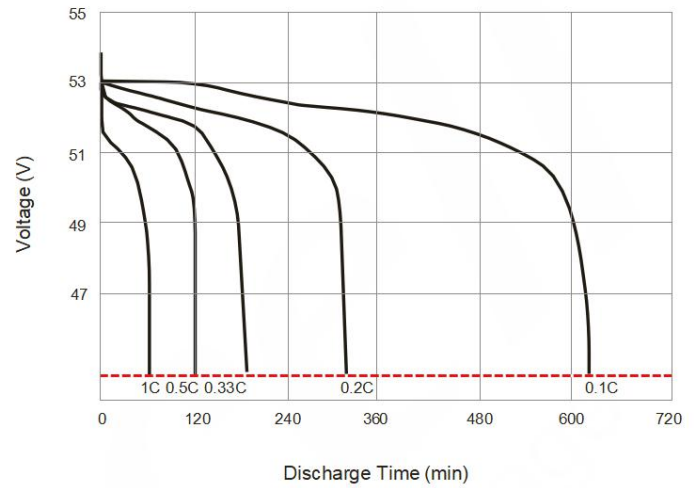
100% DOD Cycle Curves at Different Temperatures



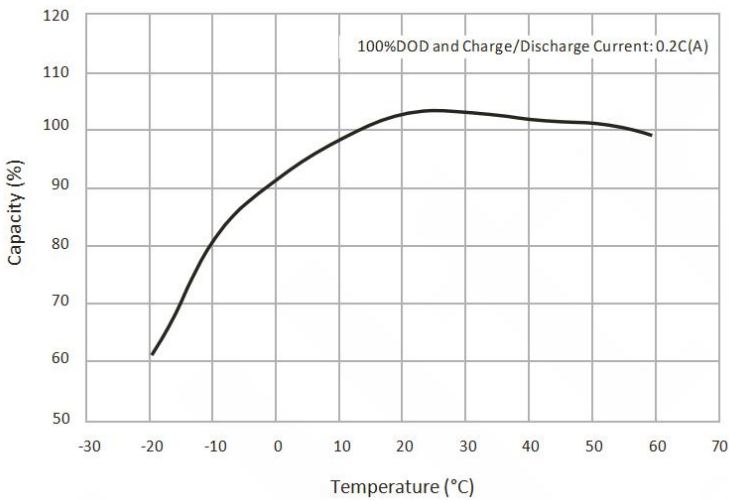
1C Cycle Curves at Different DOD & Temperatures



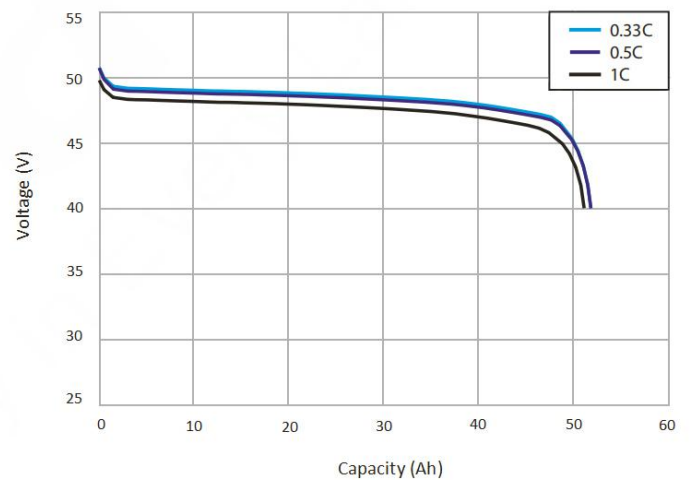
DOD in Relation to Cycle Life (25°C)



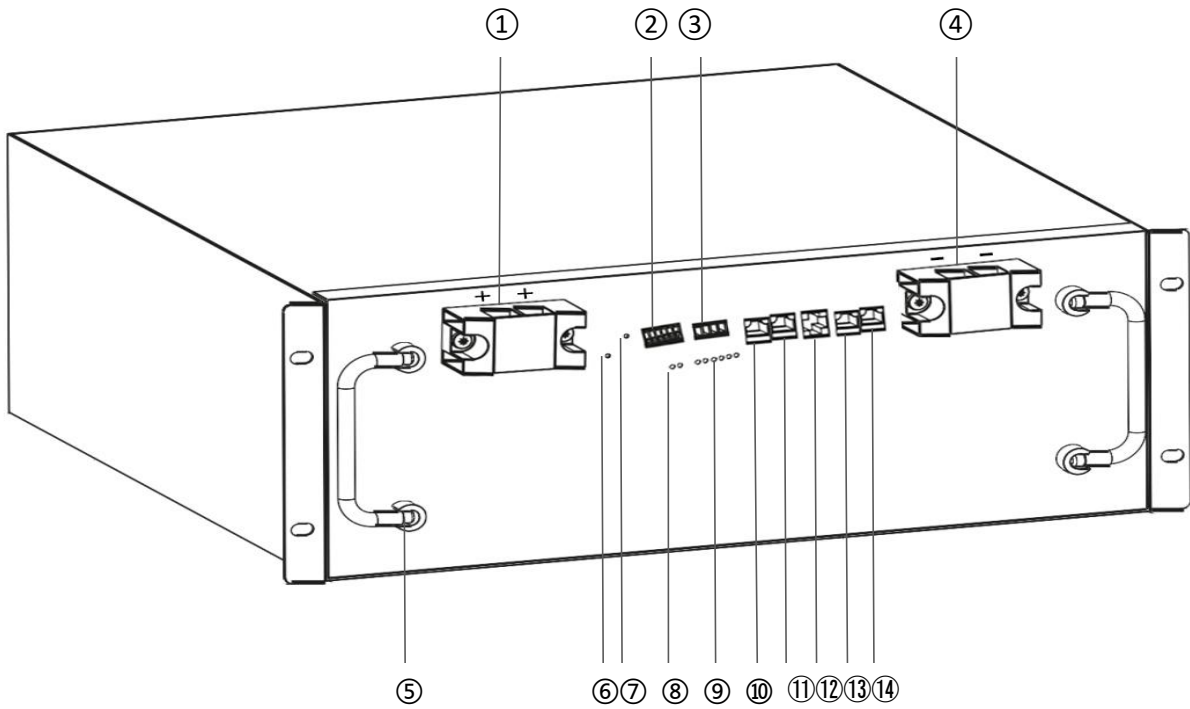
Discharge Time in Relation to Discharge Rate (25°C)



Temperature Effect in Relation to Battery Capacity

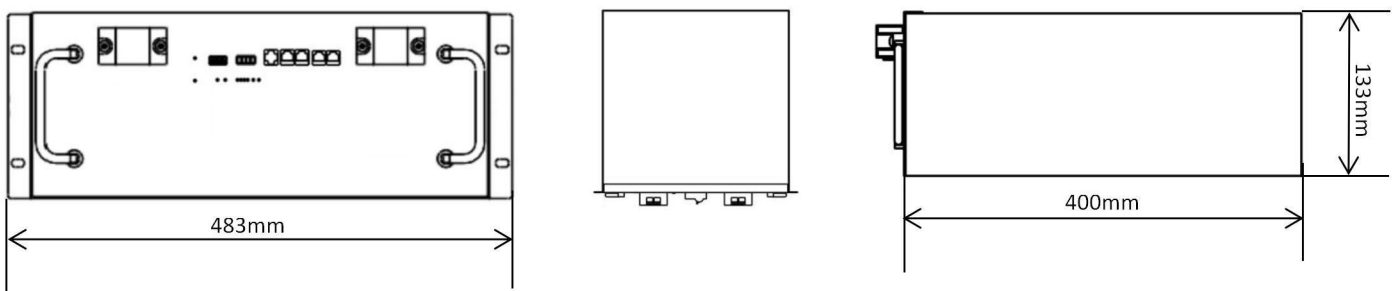


Discharge Capacity in Relation to Discharge Rate



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|--------------------------------|-----------------|---------------|-----------------------|
| 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



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