



# LiFePO4 Power Wall Battery

## iPower Plus WS48300-150



UN38.3



UL1973 IEC62619

# 【 YiLink LiFePO4 Power Wall Battery】

iPower Plus series LiFePO4 battery is specially tailored for energy storage system, it offers a greater efficiency, higher reliability, intelligent battery management system, intelligent battery monitoring system, long lifespan to your solar energy backup.

iPower Plus series LiFePO4 battery is ideal for off-grid and hybrid applications, offering a solution that's built for the long run and has the ability to be deployed and used in a variety of scenarios, for instance, residential, farm, factory, data room, holiday hotel, etc.



## Features and advantages

- Comply with IEC62619, UL1973, CE, ROHS, UN38.3, MSDS
- Intelligence self-protection
- Intelligence management system
- All-around communication interface
- Long cycle life, life > 10 Years @25 degree
- Maintenance free
- Lightweight than equivalent lead-acid batteries
- Easy installation
- Scalability
- LCD indicator



### Shenzhen YiLink R&D Center

Building A4, Shunjing Pioneer Park, Longgang District, Shenzhen, P.R.China

### Dongguan YiLink Factory

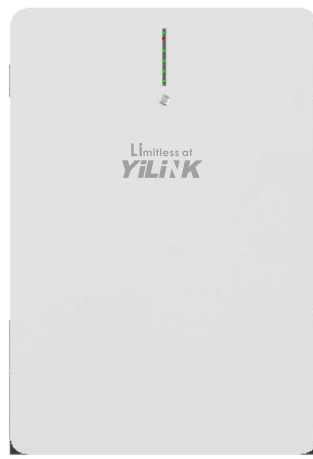
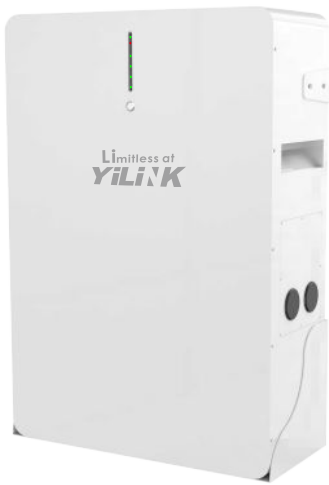
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## Technical Specification

Series	iPower Plus
Model	WS48300-150
Battery Type	LiFePO4
Nominal Voltage[V]	48
Nominal Capacity[Ah]	300
Nominal Energy[kWh]	14.40
Max. output Power[kW]	7.2
Net Weight[kg]	130
Dimension [mm]W*D*H	550*1000*230
Working Voltage[V]	40~54
Operating Temperature Charging[°C]	0~55
Operating Temperature Discharging[°C]	-20~60
Max. Charge Current[A]	150
Max. Discharge Current[A]	150
Recommend Charge Current[A]	60
Months Self Discharge	≤2%,@35°C
Efficiency of Charge & Discharge	≥99.5% @0.2C
Communication	CAN/RS485/RS232/Dry Contact
Cycle Life <sup>[1]</sup>	≥6000
Certification & Safety Standrd	UL1973/CE/UN38.3/IEC62619/EN61000-3/EN61000-6/RoHS/MSDS
Compatible Inverters	Goodwe/Growatt/Victron/Deye/Voltronic/Sofar/Luxpower More Brands in testing

[1]Test conditions:0.2C Charging/Discharging,@25°C,80% DoD

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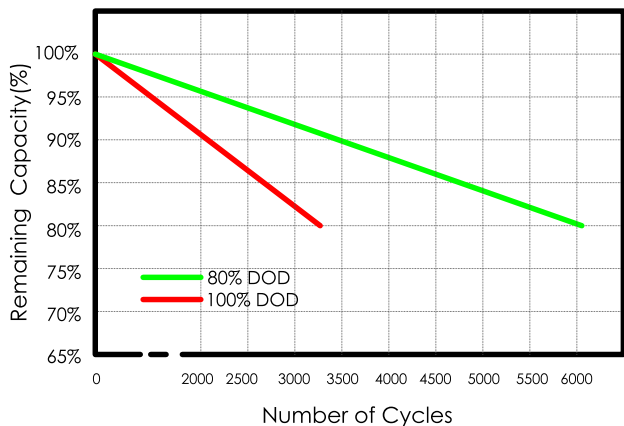
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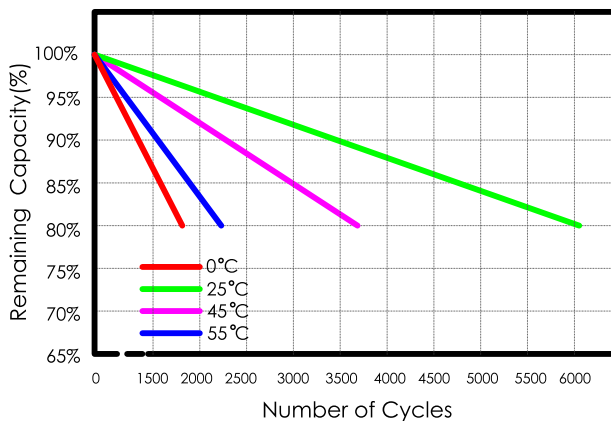


## Curves

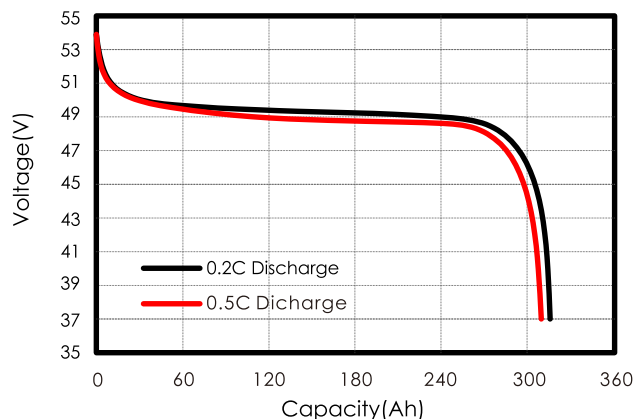
**Different DOD Cycle Life Curve & 25°C, 0.5C**



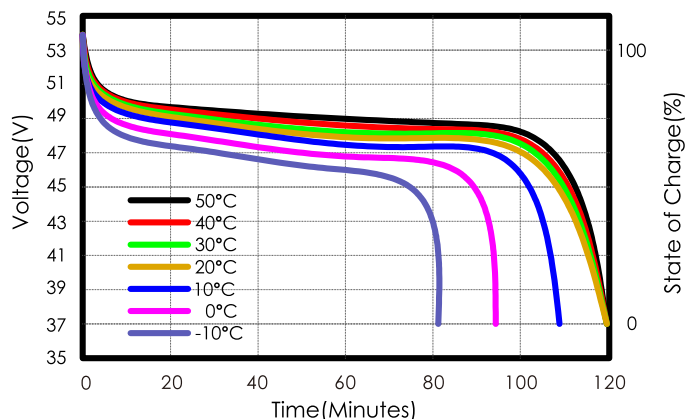
**Different Temperature Cycle Life Curve & 0.5C, 80%DOD**



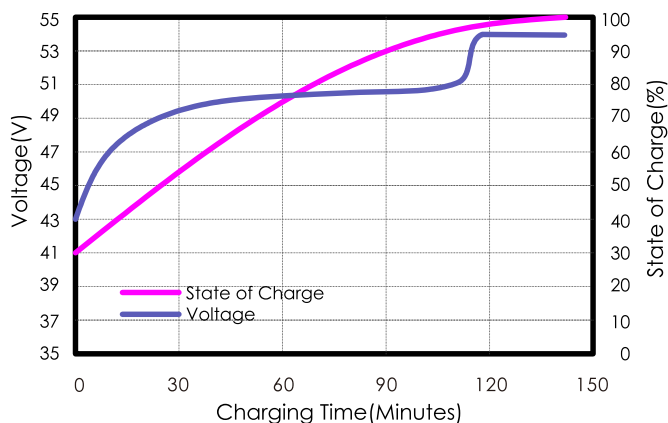
**Different Rate Discharge Curve & 25°C**



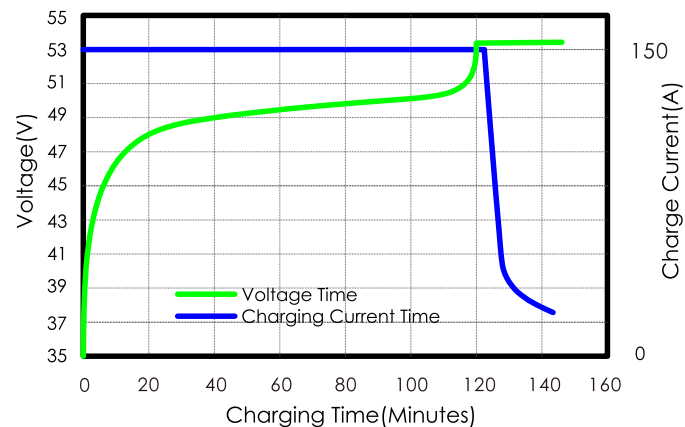
**Different Temperature Discharge Curve & 0.5C**



**State of Charge Curve & 25°C, 0.5C**



**Charging Characteristics & 25°C, 0.5C**



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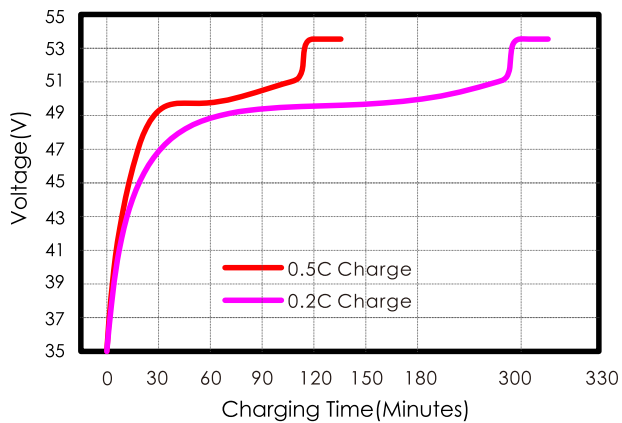
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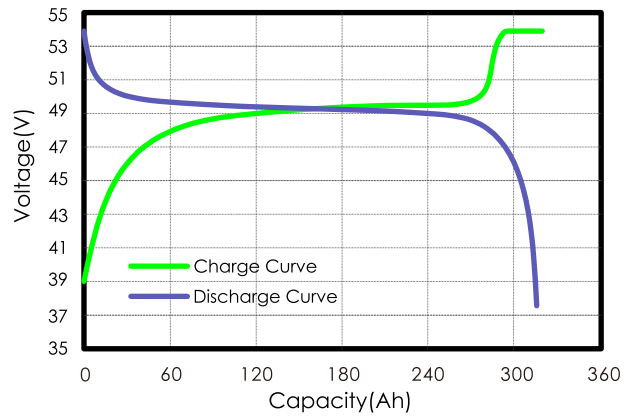
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## ▶ Different Current Charging & 25°C



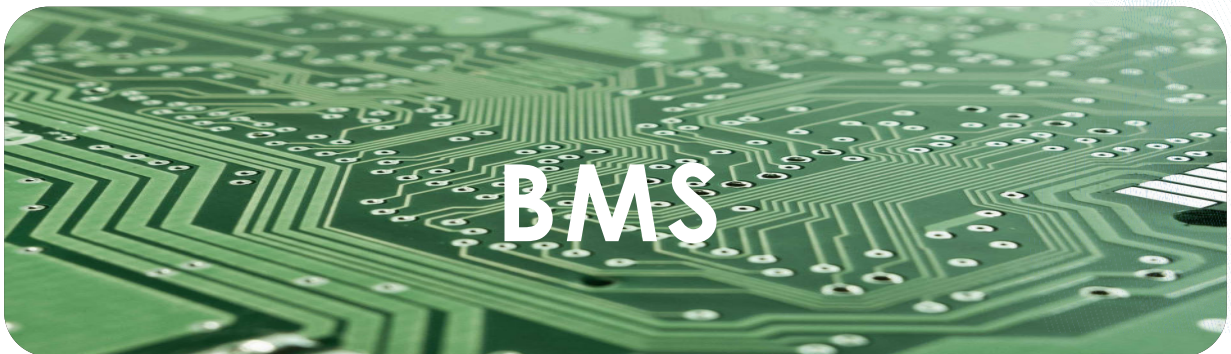
## ▶ Charge and Discharge Curve & 25°C, 0.5C



# Battery Management System

## Alarm & Protection Functions

- Cell over-charge voltage
- Cell over-discharge voltage
- Pack over-charge voltage
- Pack over-discharge voltage
- Over-current charge
- Over-current discharge
- Mos over temperature
- Mos low temperature
- Cell charge low temperature
- Cell charge over temperature
- Cell discharge low temperature
- Cell discharge over temperature
- Environment low temperature
- Environment over temperature
- Short Circuit Protection
- Fault Protection



## Features

- Charge equalization function
- SOH estimation function
- SOC estimation function
- LED status indication function
- Dual RS485 communication
- Low power consumption
- Historical data preservation
- Buzzer alarm function
- 4-channel battery temperature detection ( $\leq 2^{\circ}\text{C}$ )
- Adjustable parameter settings
- High current accuracy ( $\leq 2\% \text{ @ FS}$ )
- High voltage accuracy ( $\leq 20\text{mV}$ )
- Real time monitoring function
- With a variety of sleep and wake-up methods

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Enjoy the sunkiss  
Enjoy iPower

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