

YiLiNK

LiFePO4 Power Wall Battery YL-W51100



NuVision
ELECTRONICS

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UN38.3



UL1973 IEC62619

【 YiLink LiFePO4 Power Wall Battery】

iPower 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 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
- Intelligent self-protection
- Intelligent management system
- All-round 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 A, Zhengzhong Times Square, Longgang District, Shenzhen, P.R.China

Dongguan YiLink Factory

Huazhaoxin Industrial Park, Building D, Dongguan, P.R.China

Ganzhou YiLink Factory

Industrial 2nd Road, YiLink Industrial Park, Ganzhou, Jiangxi, P.R.China

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Technical Specification

Model	YL-W51100
Battery Type	LiFePO4
Nominal Voltage[V]	51.2
Nominal Capacity[Ah]	100
Nominal Energy[kWh]	5.12
Max. output Power[kW]	5.12
Net Weight[kg]	52
Dimension [mm]W*D*H	480*520*167
Working Voltage[V]	42~58
Operating Temperature Charging[°C]	0~55
Operating Temperature Discharging[°C]	-20~60
Max. Charge Current[A]	100
Max. Discharge Current[A]	100
Recommend Charge Current[A]	20
Monthly Self Discharge	≤2%,@35°C
Efficiency of Charge & Discharge	≥99.5% @0.2C
Communication	CAN/RS485/RS232/Dry Contact
Cycle Life ^[1]	≥6000
Certification & Safety Standrd	UL1973/CE/UN38.3/IEC62619/EN61000-3/EN61000-6/RoHS/MSDS
Compatible Inverters	Deye, Growatt, Sol-Ark, SunSynk, Victron, Voltronic, Goodwe, Luxpower, Sofar, SMA, Schneider, Solis, TBB, INVT, etc

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

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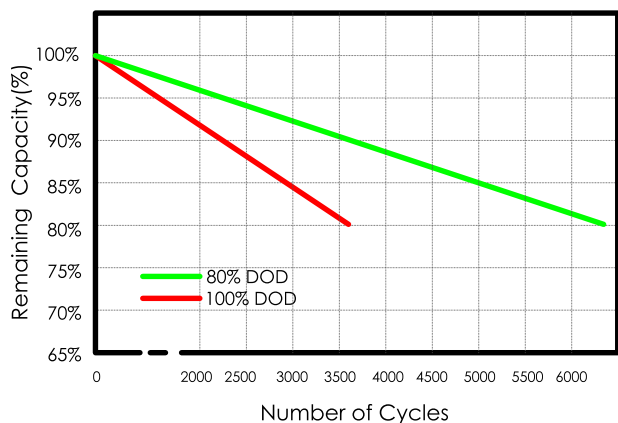
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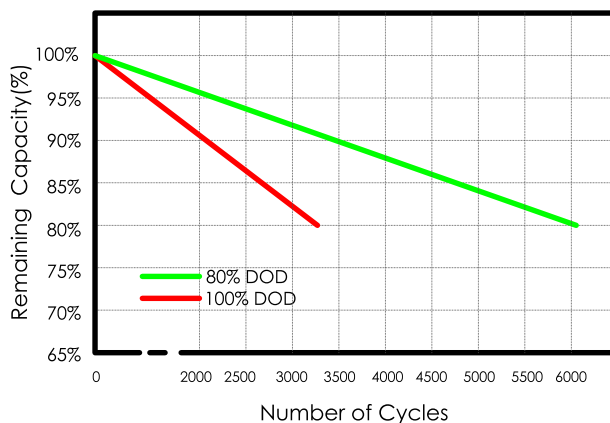


Curves

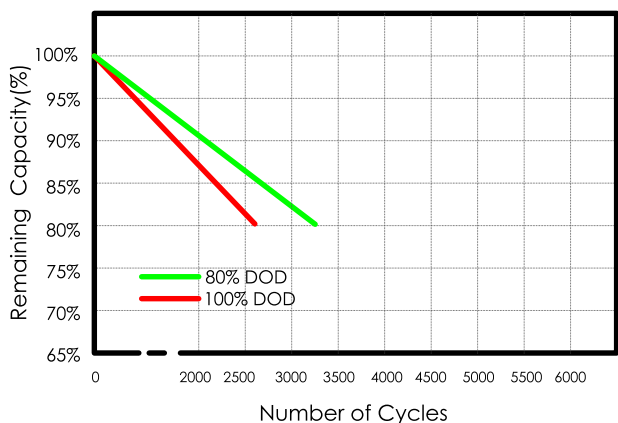
Different DOD Cycle Life Curve@25°C,0.2C



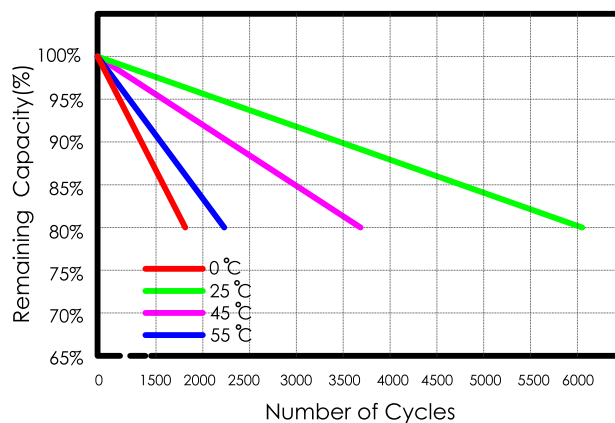
Different DOD Cycle Life Curve@25°C,0.5C



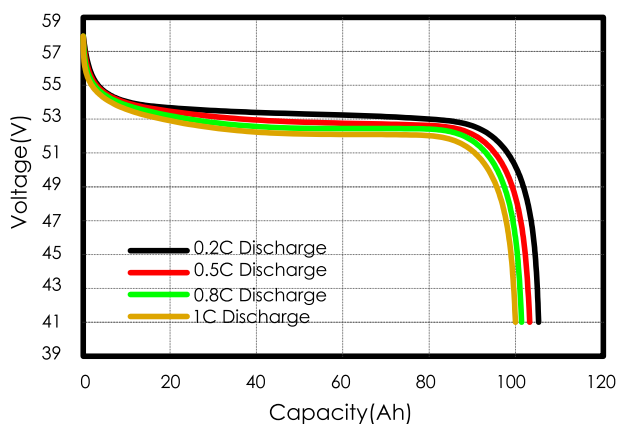
Different DOD Cycle Life Curve@25°C,1.0C



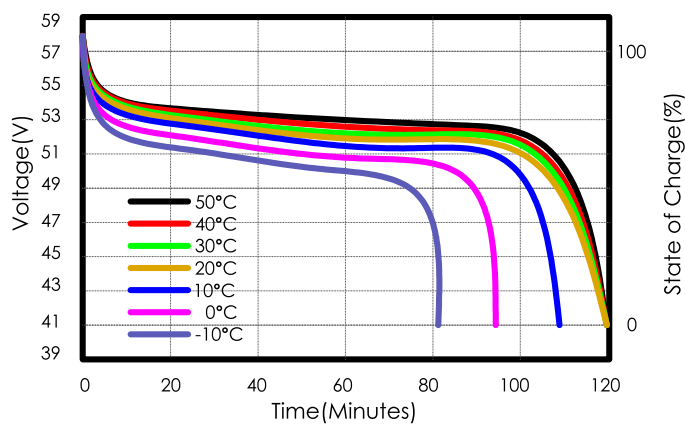
Different Temperature Cycle Life Curve@0.5C,80%DOD



Different Rate Discharge Curve@25°C



Different Temperature Discharge Curve@25°C



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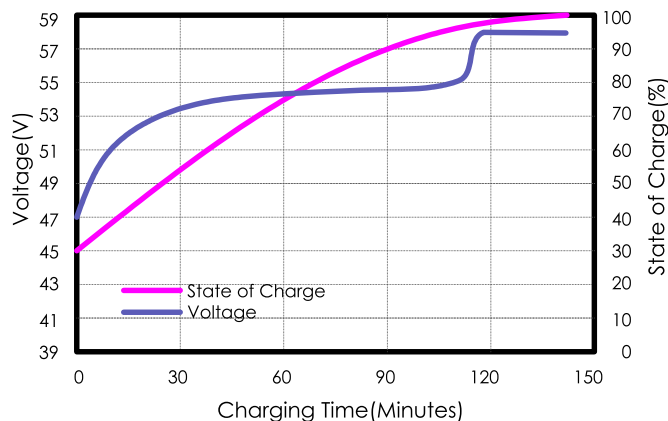
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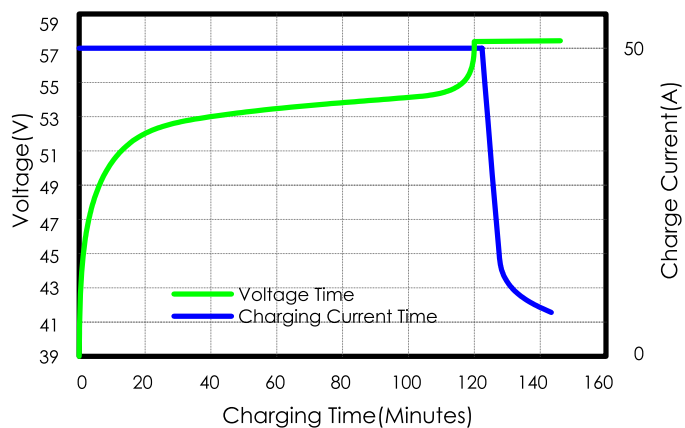
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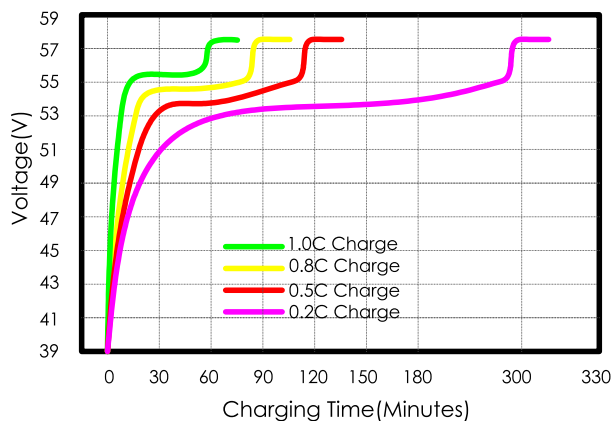
State of Charge Curve@25°C,0.5C



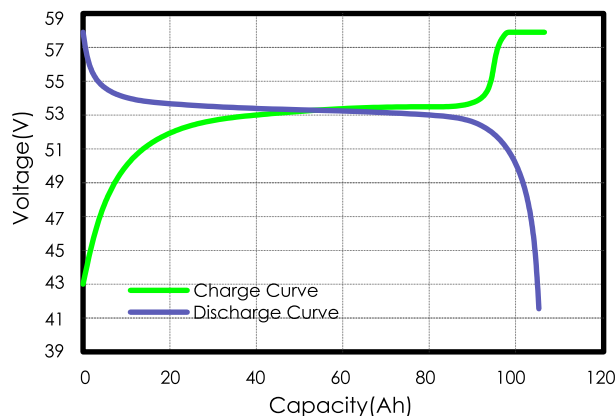
Charging Characteristics@25°C,0.5C



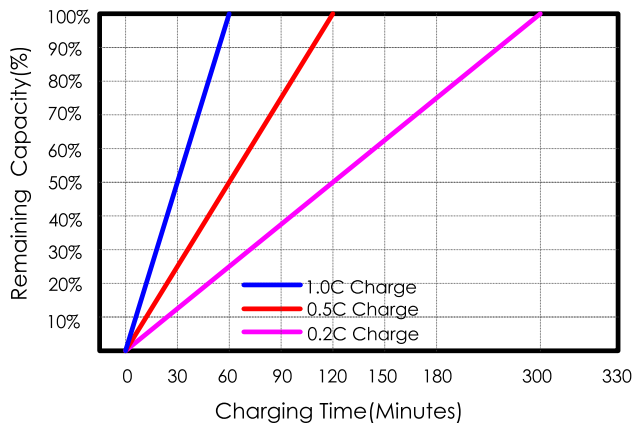
Different Current Charging@25°C



Charge and Discharge Current @25°C,0.5C



Different Current Charging @25°C



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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
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