

YiLiNK

LiFePO4 Rack Mount Battery

YL-S51100



NuVision
ELECTRONICS

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UN38.3



UL1973 IEC62619

【 YiLink LiFePO4 Rack Mount 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

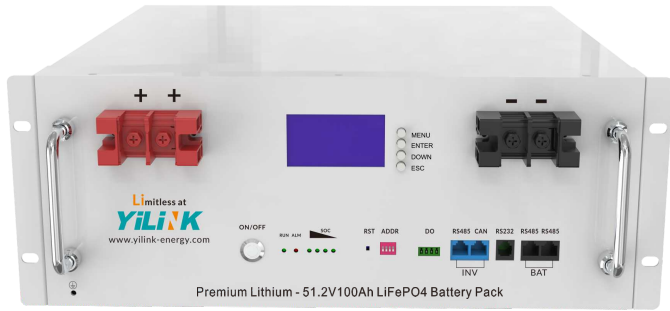
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Technical Specification

Model	YL-S51100
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]	46
Dimension [mm]W*D*H	442*450*178
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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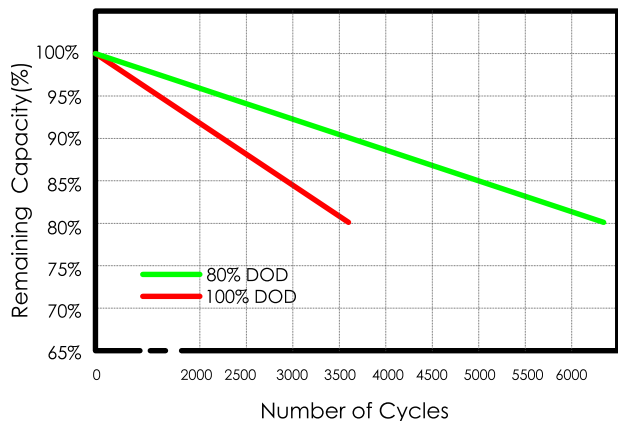
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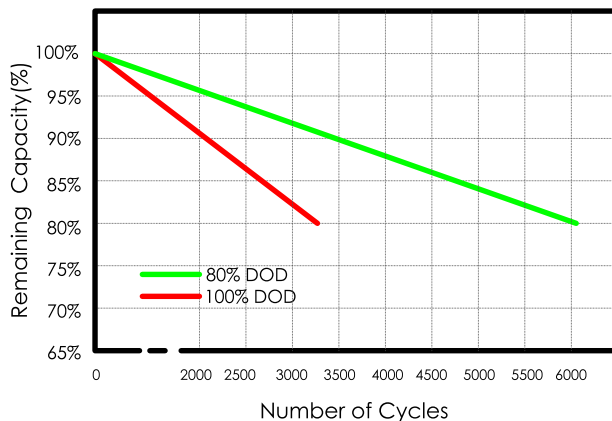


Curves

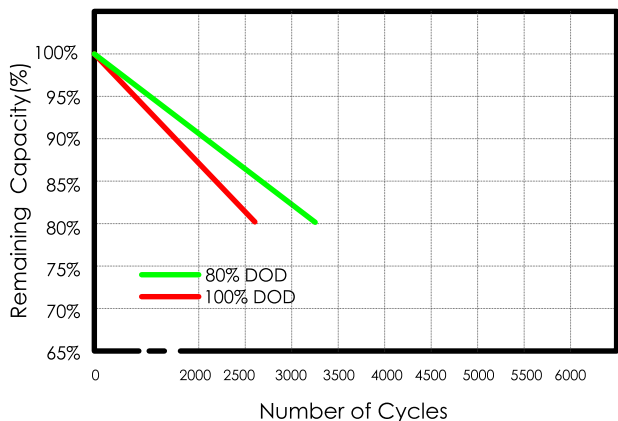
Different DOD Cycle Life Curve@25°C,0.2C



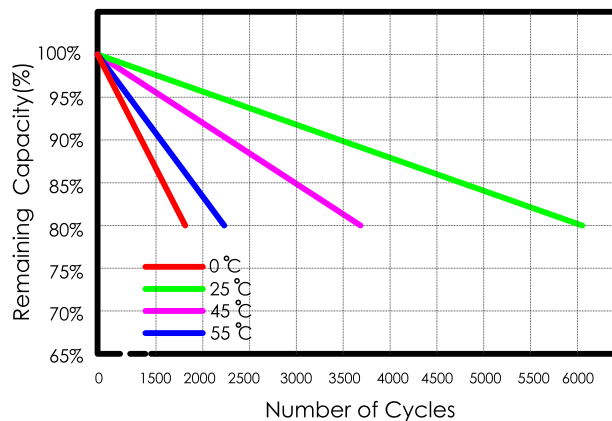
Different DOD Cycle Life Curve@25°C,0.5C



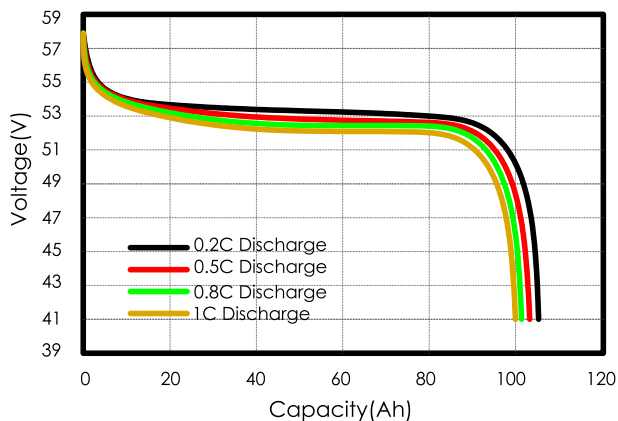
Different DOD Cycle Life Curve@25°C,1.0C



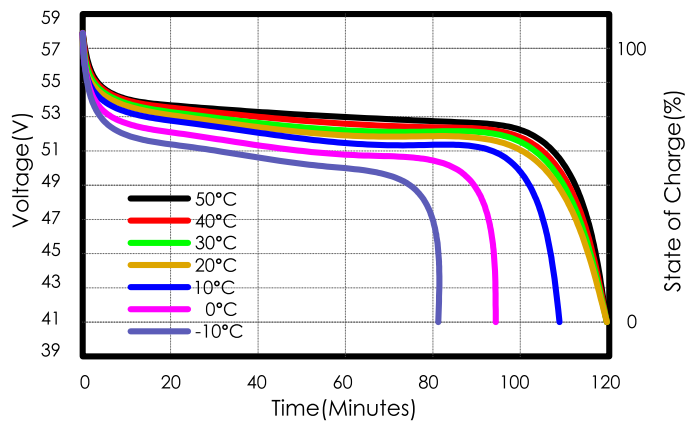
Different Temperature Cycle Life Curve@0.5C,80%DOD



Different Rate Discharge Curve@25°C



Different Temperature Discharge Curve@25°C



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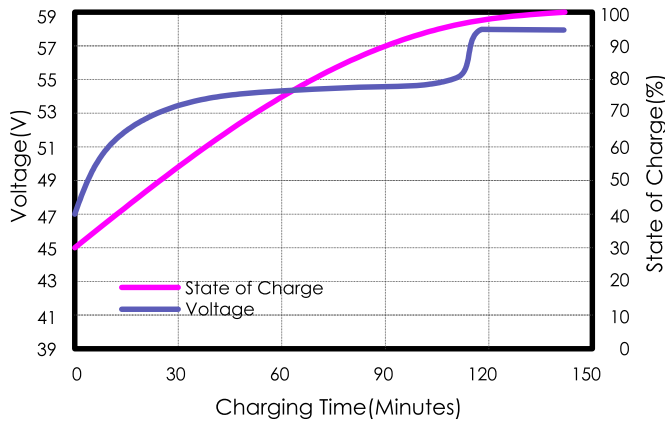
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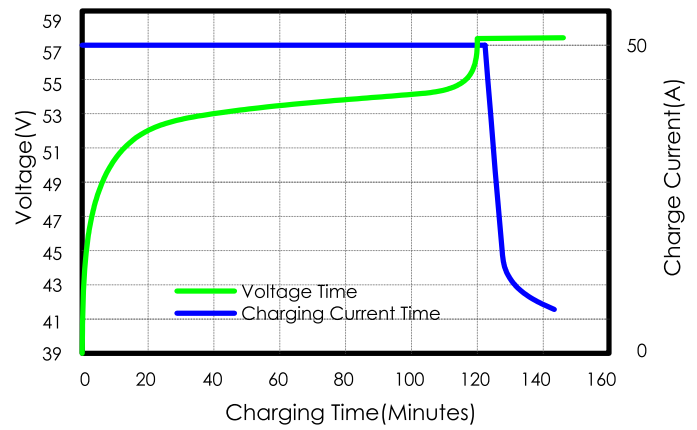
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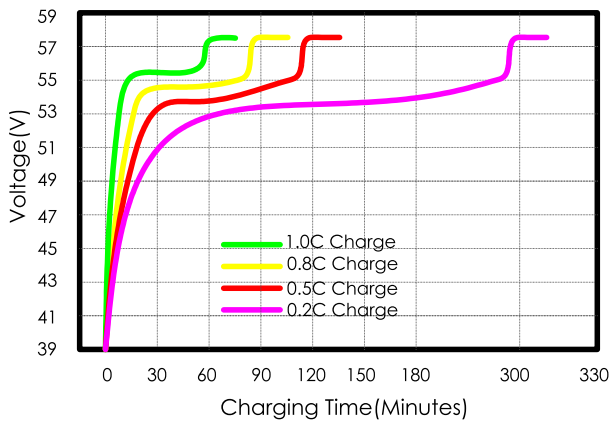
State of Charge Curve@25°C,0.5C



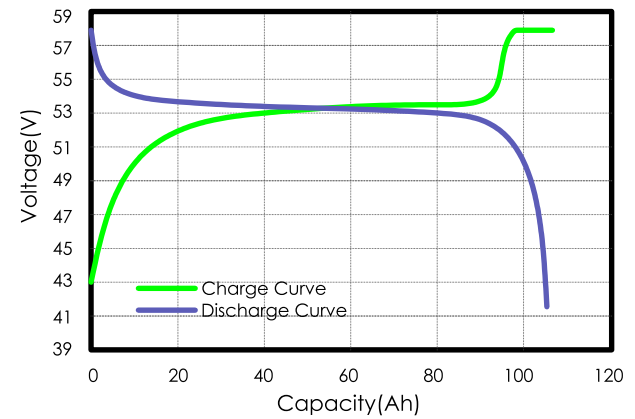
Charging Characteristics@25°C,0.5C



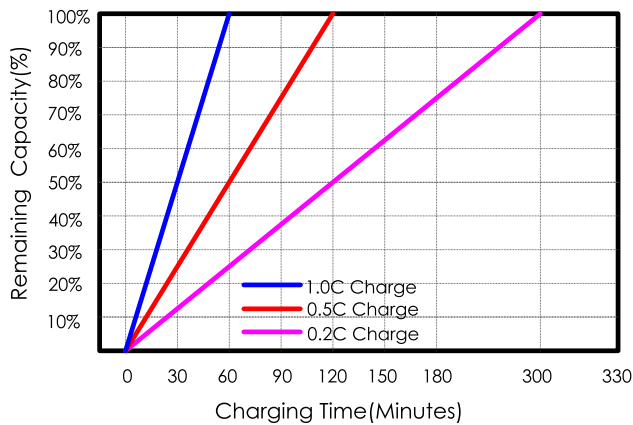
Different Current Charging@25°C



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
Enjoy iPower

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