

LiFePO4 Powerwall Battery

PW100-48

ELECTRICAL PERFORMANCE

Nominal Voltage	51.2 V
Nominal Capacity	100 Ah
Capacity @ 20A	600 min
Energy	5120 Wh
Communication	CAN2.0/RS232/RS485
Resistance	≤45 mΩ @ 50% SOC
Efficiency	>96%
Module Parallel	Up to 3 packs

CHARGE PERFORMANCE

Recommended Charge Current	50A
Maximum Charge Current	100A
Recommended Charge Voltage	58.0V
BMS Charge Cut-Off Voltage	<58.4 V (3.65V/Cell)
Reconnect Voltage	>57.6 V (3.6V/Cell)
Balancing Voltage	<57.6 V (3.6V/Cell)
Maximum Batteries in Series	16

DISCHARGE PERFORMANCE

Maximum Continuous Discharge Current	100 A
Peak Discharge Current	110 A (3s)
BMS Discharge Cut-Off Current	150 A (300ms)
Balancing open voltage	55.2V (3.45V/Cell)
Recommended Low Voltage Disconnect	44 V (2.75V/Cell)
BMS Discharge Cut-Off Voltage	>32.0V (2s) (2.0V/Cell)
Reconnect Voltage	>40.0 V (2.5V/Cell)
Short Circuit Protection	250 ~ 500 μs

COMPLIANCE

Certifications	CE (battery) UN38.3 (battery) UL1642 & IEC62133 (cells)
Shipping Classification	UN 3480, CLASS 9



MECHANICAL PERFORMANCE

Dimension (L x W x H)	600 X 400 X 213
Approx. Weight	49KG
Terminal Type	DIN POST
Terminal Torque	80 ~ 100 in-lbs (9 ~ 11 N-m)
Case Material	SPPC
Enclosure Protection	IP65

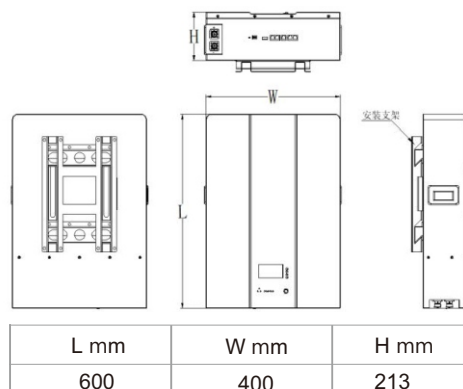
TEMPERATURE PERFORMANCE

Discharge Temperature	-4 ~ 131 °F (-20 ~ 55 °C)
Charge Temperature	-4 ~ 113 °F (0 ~ 45 °C)
Storage Temperature	23 ~ 95 °F (-5 ~ 35 °C)
BMS High Temperature Cut-Off	149 °F (65 °C)
Reconnect Temperature	131 °F (55 °C)

HEATING FOIL PERFORMANCE

Heating Temperature Range	-4 to 41 °F (-20 to 5 °C)
Heating Time	Approximately 1 hour @ 7.5 A
BMS Heating Foil Cut-Off	158 °F (70 °C)

OUTLINE DIMENSION

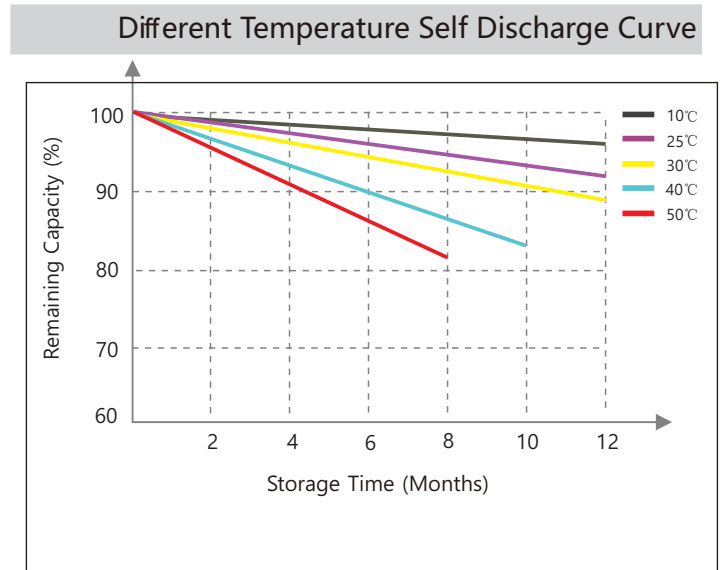
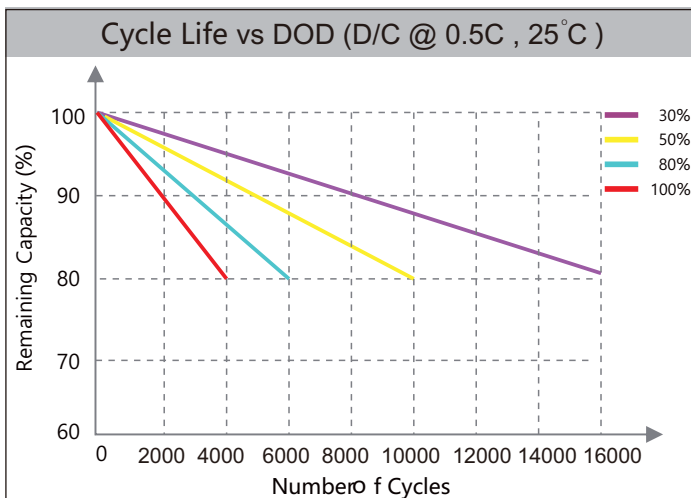
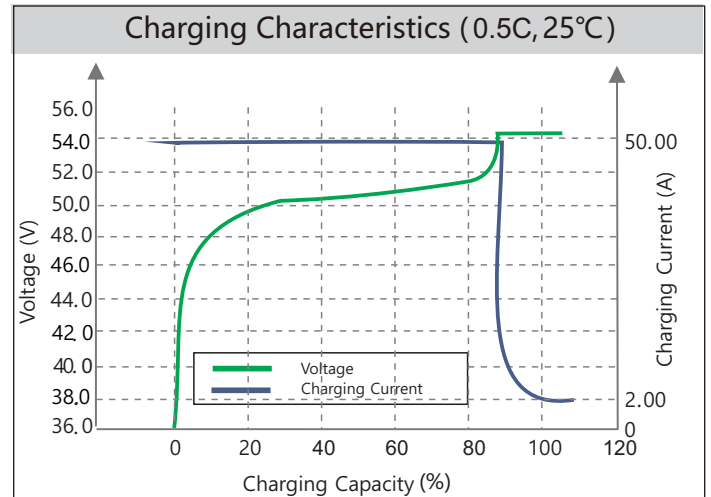
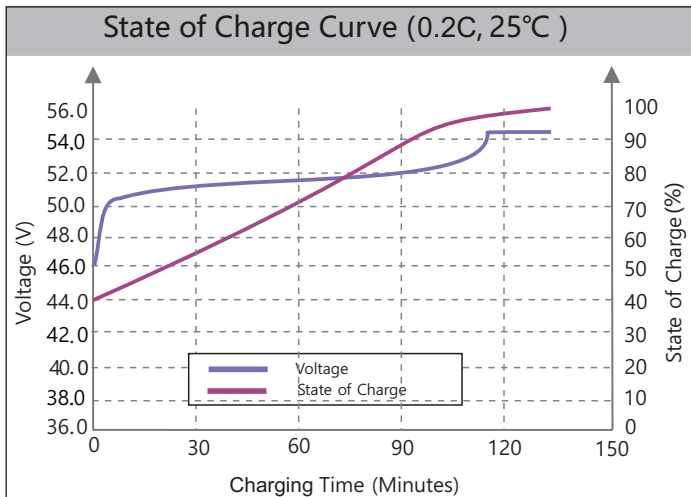
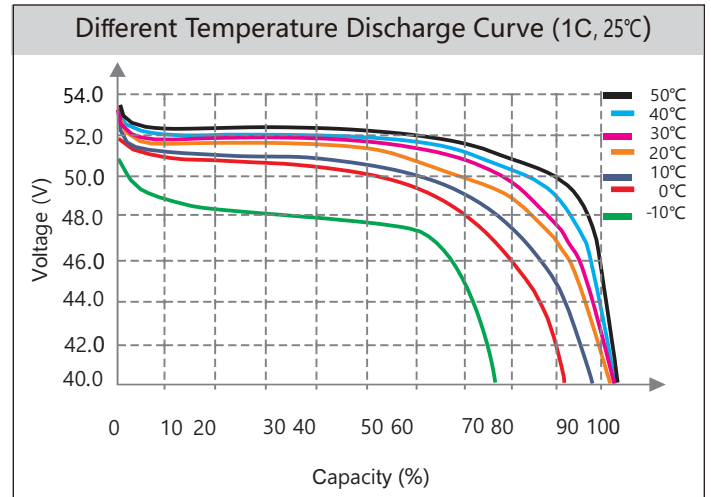
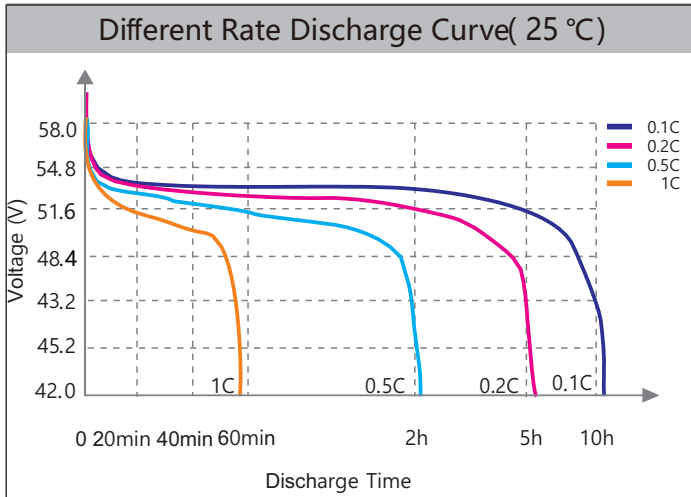


ISO9001 RoHS IEC UN38.3

more cycles you can get

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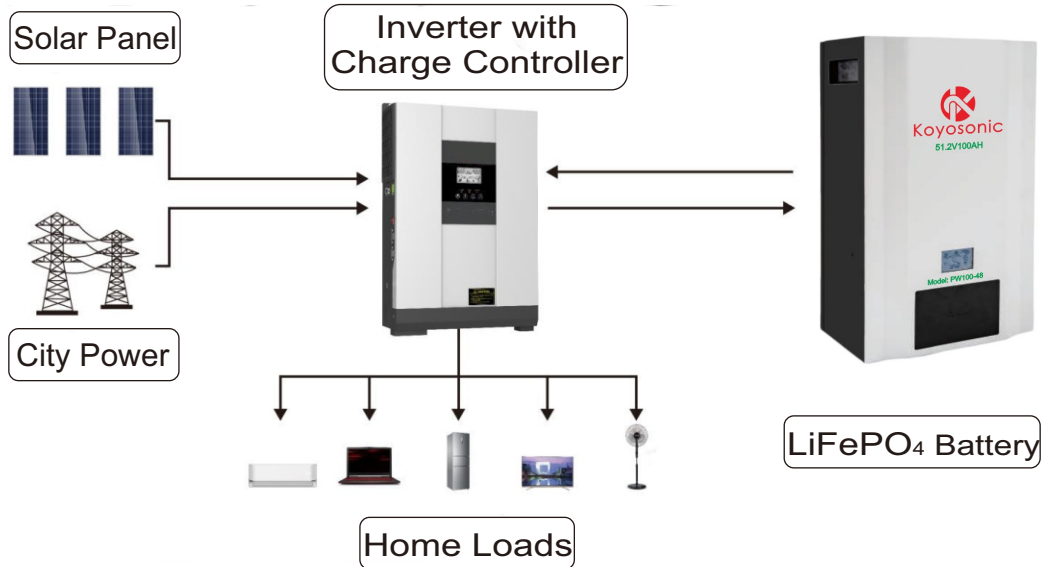
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SYSTEM DIAGRAM



FEATURES & BENEFITS



High cycle life

6000 cycles @80% DoD for effectively lower total of ownership cost



Longer service life

Maintenance-free batteries with stable chemistry.



Built in circuit protection

Battery Management System (BMS) is incorporated against abuse.



Better storage

Up to 6 months owing to its extremely low self discharge (LSD) rate and no risk of sulphation.



Quickly recharge

Save time and increase productivity with less down time owing to superior charge/discharge efficiency.



Extreme heat tolerance

Suitable for use in a wider range of applications where ambient temperature is unusually high: up to +60°C.



Light weight

A lithium battery can provide more Wh/Kg and it is just 1/3 of its equivalent VRLA-AGM battery in weight.

APPLICATIONS

Lithium Iron Phosphate batteries can be used in most applications and they can replace Lead- Acid, GEL or AGM batteries. Suitable applications include:

- Solar Storage
- Switching applications and more
- Base transceiver station
- Communication equipments
- Central office
- Telecommunication systems
- Electronic cash registers
- Microprocessor based office machine
- UPS

CAUTIONS

- Do NOT short circuit, reverse polarity, crush or disassemble.
- Do NOT heat or incinerate.
- Do NOT immerse in any liquid.
- Store at 30~50% SOC. Recharging every 3 months is recommended. It should be stored in a clean, cool, dry and well-ventilated place.

Notes: Performance may vary depending on applications. All specifications are subject to change without prior notice to users. This data is only for reference. No guarantee is intended or implied by the data sheet. For clarification and updated information, please contact us.

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