

LiFePO4 Powerwall Battery

PW100-48

ELECTRICAL PERFORMANCE

NominalVoltage	51.2 V
NominalCapacity	100Ah
Capacity@20A	600min
Energy	51200 Wh
Communication	CAN2.0/RS232/RS485
Resistance	≤45mΩ@5 0% SOC
Efficiency	> 96%
Module Parallel	Upto3p acks

CHARGE PERFORMANCE

RecommendedChargeCurrent	20A
MaximumChargeCurrent	100A
RecommendedChargeVoltage	57.6V
BMSChargeCut-OffVoltage	<58.4V (3.65V/Cell)
ReconnectVoltage	>57.6V (3.6V/Cell)
BalancingVoltage	<57.6V (3.6V/Cell)
Maximum BatteriesinSeries	16

DISCHARGE PERFORMANCE

MaximumContinuousDischargeCurrent	100A
Peak DischargeCurrent	110A (3s)
BMSDischargeCut-OffCurrent	150A (300ms)
Balancing openvoltage	55.2V(3.45V/Cell)
RecommendedLowVoltageDisconnect	44V (2.75V/Cell)
BMSDischargeCut-OffVoltage	>32.0V(2s) (2.0V/Cell)
ReconnectVoltage	>40.0V(2.5V /Cell)
ShortCircuitProtection	250~500μs

COMPLIANCE

Certifications	CE(battery) UN38.3(battery) UL1642&IEC62133 (cells)
Shipping clasification	UN3480,C LASS9



MECHANICAL PERFORMANCE

Dimension(LxWxH)	600 X 400 X 213
Approx.Weight	49KG
Terminal Type	DIN POST
Terminal Torque	80~100 in-lbs(9~11N-m)
CaseMa terial	SPPC
Enclosure Protection	IP65

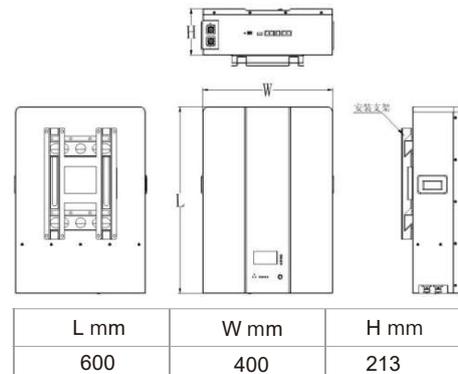
TEMPERATURE PERFORMANCE

DischargeTemper ature	-4~ 131 °F(-20~55 °C)
ChargeTempe rature	-4~1 13 °F(0~45 °C)
StorageTemperature	23 ~95 °F(-5~35 °C)
BMSHighTemperatureCut-Off	149 °F(65 °C)
ReconnectTemperature	131 °F(55 °C)

HEATINGFOIL PERFORMANCE

Heating TemperatureRange	-4to41 °F (-20to5 °C)
HeatingTime	Approximately1hour@7.5A
BMSHeatingFoilCut-Off	158 °F(70 °C)

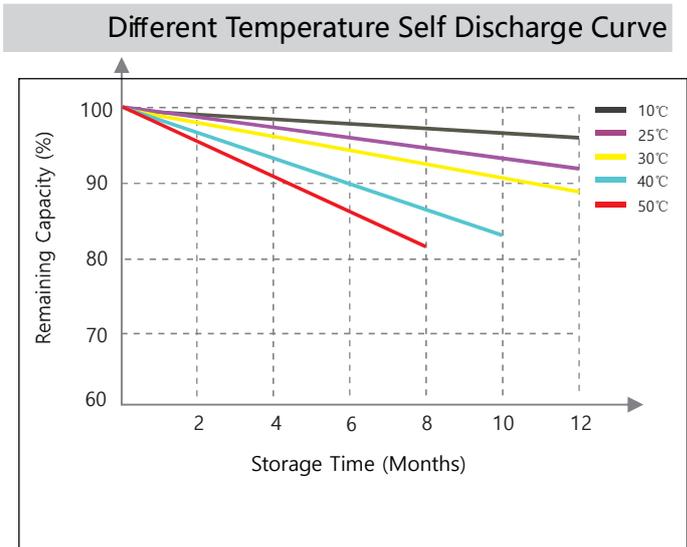
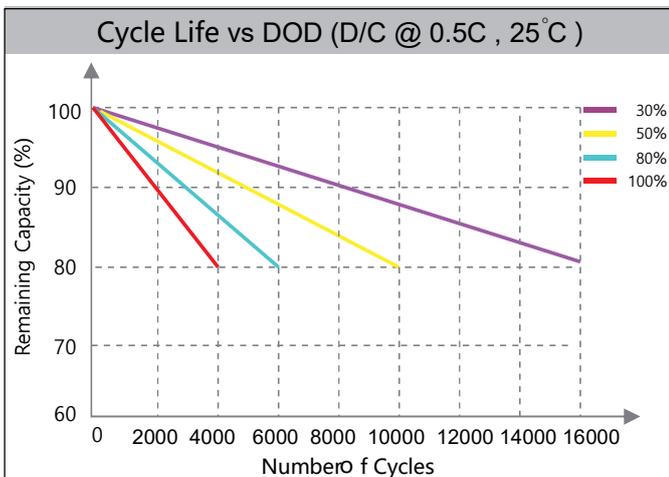
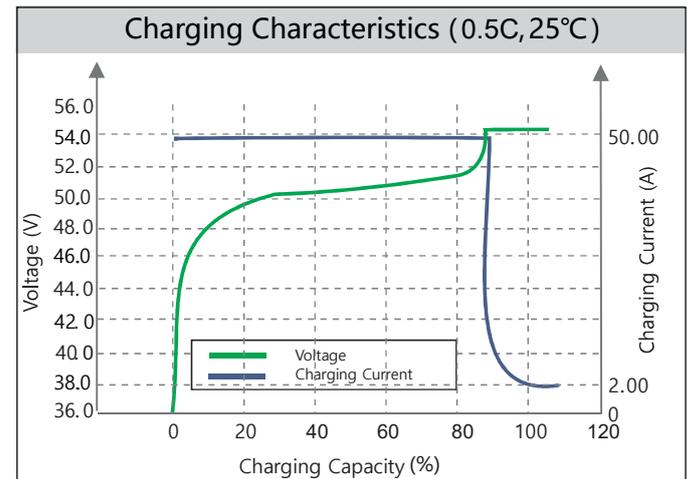
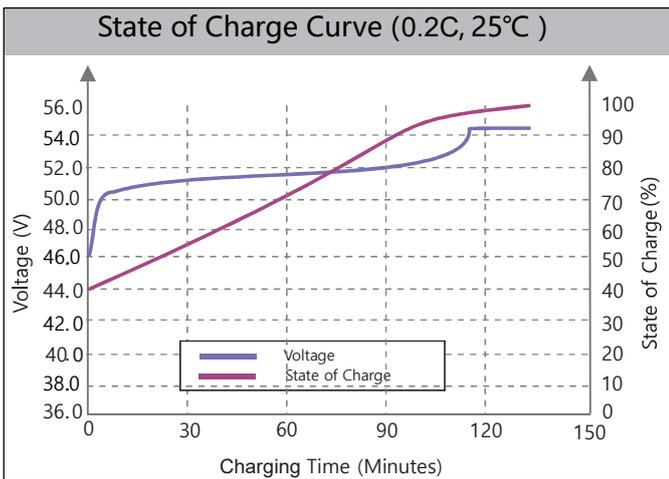
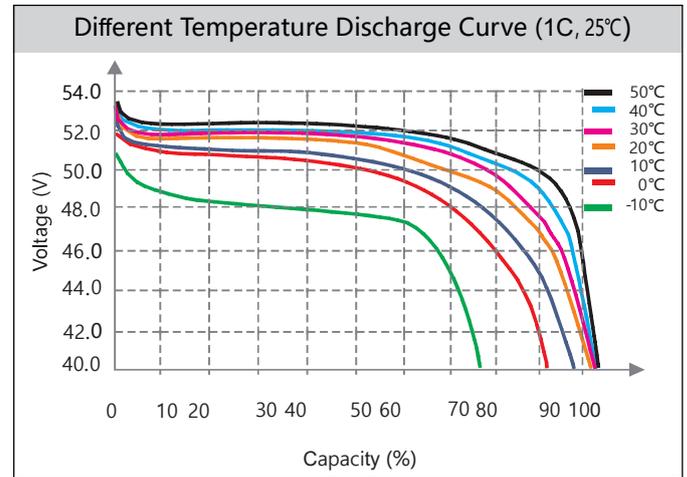
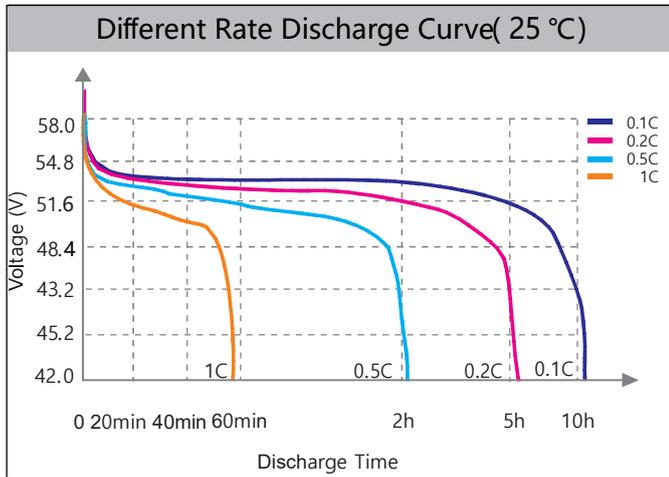
OUTLINE DIMENSION



ISO9001 RoHS IEC UN38.3 CE

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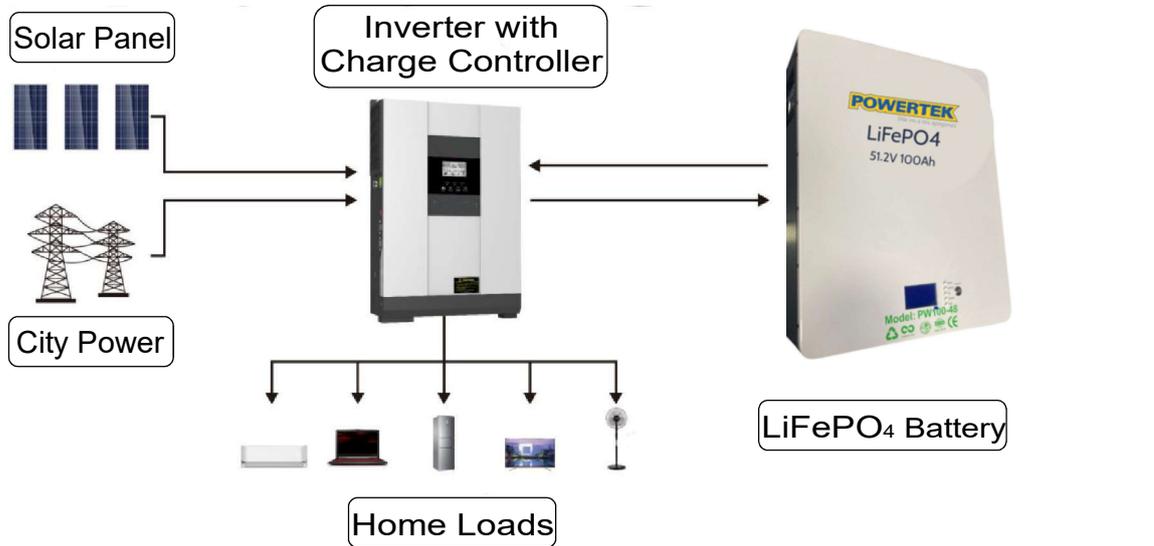


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SYSTEM DIAGRAM



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 wide 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
- Telecommunications 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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