51.2V 300AH LiFePO4 Battery

ELECTRICAL SPECIFICATION	
Nominal Voltage	51.2V
Nominal Capacity	300AH
Energy	15360Wh
Resistance	≤100mΩ
Efficiency	99%
Self Discharge	<3% per month



DISCHARGE SPECIFICATIONS	
Max. Cont.Discharge	200A
Peak Discharge Current	100A
Recommend Cut-off voltage	45.6V

CHARGE SPECIFICATION	
Recommended Charge Current	100A
Max. Charge Current	200A
Recommended Charge Voltage	56.16V
Charge Current (-20 to -10 °C)	≤0.05 C

MECHANICAL SPECIFICATIONS	
Dimensions	660*820*140mm
Weight	120.77KG
Case Material Enclosure	Metal
Protection Cell Type	IP21
Prismatic	16S3P
Toral cell	48PIECES

TEMPERATURE SPECIFICATION	
Discharge Temperature	-20°C to 60°C
Charge Temperature	0°C to 45°C
Storage Temperature	0°C to 40°C
BMS High Temperature	80°C
Reconnect Temperature	50°C

FEATURE & BENIFITS

- High Cycle Life: >6000 cycle time, 80%D.O.D for effectively lower cost of ownership
- Built-in BMS Protection: Battery Management System are incorporated to protect battery from

OVER CHARGING, OVER DISCHARGING, SHORT CIRCUIT

- LIGHT WEIGHT: Dry power lithium batteries has higher energy density, wh/kg also being up to 1/3 of SLA battery
- WIDE OPERATING TEMPERATURE RANGE: Suitable for users in a wider range of application where ambient

temperature is unusually high: up to +60°C

STEADY OUTPUT VOLTAGE, VIBRATION & SHOCK RESISTANT, NO MEMORY EFFECT, PRESSURE RESISTANT CELLS

PERFORMANCE CHARACTERISTIC



Charge Voltage Characteristics At Various

40%

CHARGE 0.2C

60%

80%

100%

State Of Charge

120%

Temperatures

60.0

58.0 56.0

54.0

52.0 50.0

48.0

46.0 Voltage 44.0

42.0

40.0 38.0

36.0

34.0

32.0

0%

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> Discharge Voltage Characteristics At Various Rates





Charge Voltage And State Of Charge(SOC)



−45°C (113°F) −25°C (77°F) − 5°C (41°F)

20%

SUITABLE APPLICATIONS

- Lithium Iron Phosphate can be used in any application that would normally use Lead Acid, GEL, or AGM type batteries
- LiFePO4 in 4S=12.8V and 8S-25.6V is closed to Lead Acid equivalents of the Lithium rechargeable types
- Suitable applications included caravan, marine, golf carts, solar storage, remote monitoring, switching applications

CAUTIONS

- Do NOT expose the battery to water
- Do NOT expose the battery to fire & high temperature
- Do NOT short circuit, crush or disassemble
- Only use LiFePO4 charger
- Store at 50% capacity, recharge every 3 months. The storage area should be clean, cool, dry and ventilated.