

SB2218 24V 100AH LiFePO4 Battery Pack

Data Sheet

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ELECTIRCAL SPECIFICATION

Nominal Voltage	24V(25.6V)
Nominal Capacity	100AH
Capacity @20A	5HR
Energy	2560Wh
Resistance	≤20m Ω
Efficiency	99%
Self Discharge	< 3% per month
Max. Modules in Series	2

DISCHARGE SPECIFICATION

Recommend Cont. Discharge	100A
Max. Cont. Discharge Current	100A
Peak Discharge Current	200A(3s)

Recommend Cut-off voltage	19.2V
BMS Discharge Cut-off	18V
Short Circuit Protection	200-600 μs

CHARGE SPECIFICATION

Recommended Charge Current	20-50A
Max. Charge Current	50A
Peak Charge Current	100A(30s)
BMS Charge Voltage Cut-off	29.2V (1±0.2S)
Reconnect Voltage	28.4V-29.2V
Balancing Current	/
Balancing Voltage	/
Charge Current (-20 to -10 °C)	≤0.05 C



MECHANICAL SPECIFICATION

Dimensions (L*W*H)	521*238*218mm
Weight	22KG±0.5KG
Terminal Type	Screw Stud
Case Material	ABS
Enclosure Protection	IP65
Cell Type: Prismatic	8S4P
Total Cell	32 PIECES

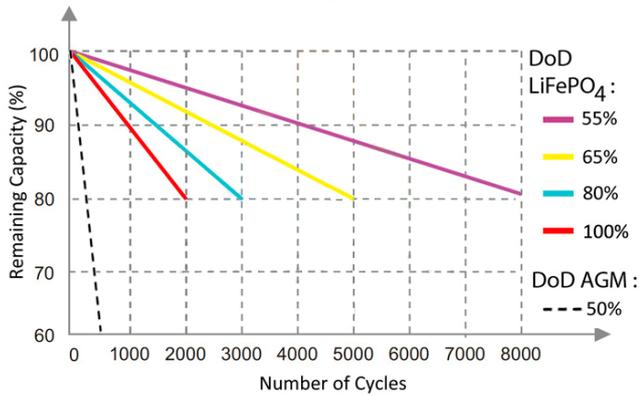
TEMPERATURE SPECIFICATION

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

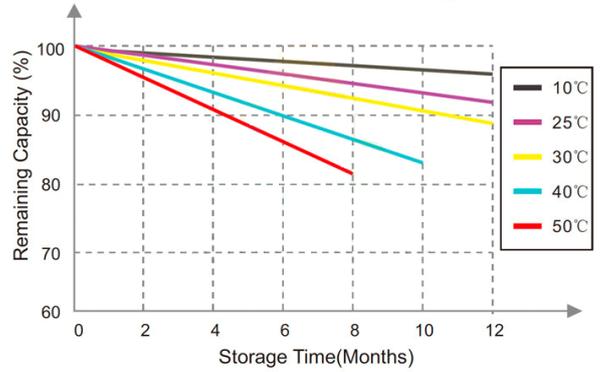
FEATURES & BENEFITS

- HIGH CYCLE LIFE: >3000 times @ 80%DOD for effectively lower cost of ownership
- BATTERY PACK 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

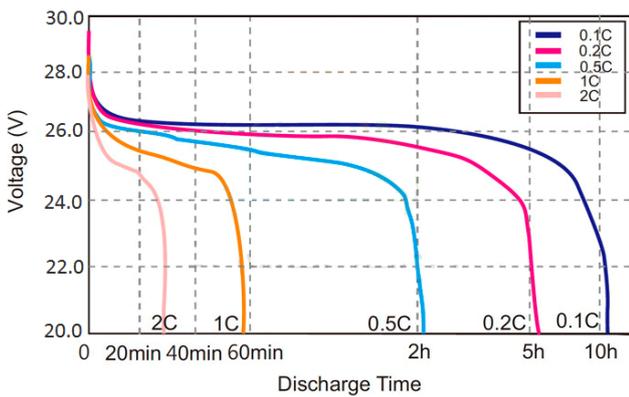
Different DoD Discharge Cycle Life @1C



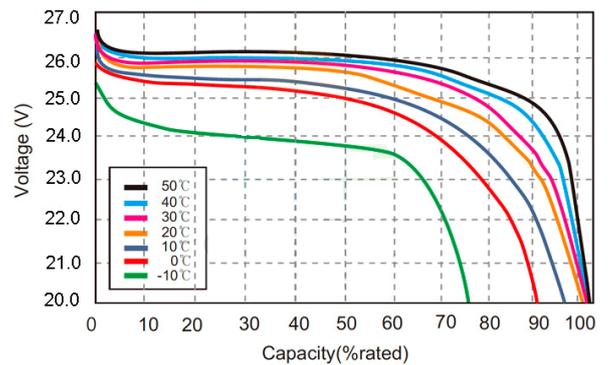
Different Temperature Self Discharge Curve



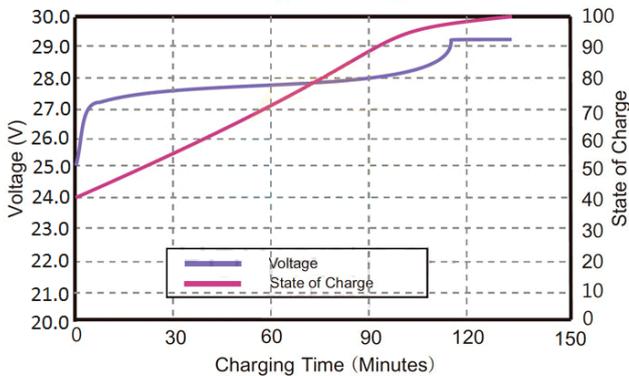
Different Rate Discharge Curve @25°C



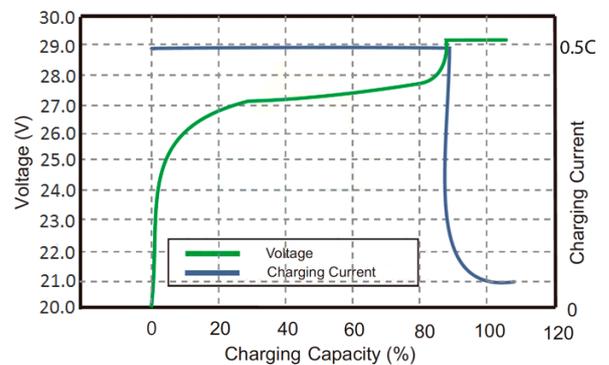
Different Temperature Discharge Curve @0.5C



State of Charge Curve @0.5C 25°C



Charging Characteristics @0.5C 25°C



SUITABLE APPLICATIONS

- Lithium Iron Phosphate can be used in most applications 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 include caravan, marine, golf carts, solar storage, remote monitoring, switching.

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 long term at 50% capacity, recharge every 3 months. The storage area should be clean, cool, dry and ventilated.