

Stackable 51.2V 100AH LiFePO4 Battery Built in Smart BMS

ELECTRICAL SPECIFICATIONS

Nominal Voltage	48V (51.2V)
Nominal Capacity	105AH Cells
Capacity @20A	5HR
Usable Capacity	5120Wh
Resistance	≤20m Ω
Efficiency	99%
Self-Discharge	< 3% per month
Max. Modules in Parallel	15

DISCHARGE SPECIFICATIONS

Recommended Cont. Discharge	20A - 50A
Max. Cont. Discharge Current	100A
Peak Discharge Current	200A (3s)
BMS Discharge Current	300A ± 100A (10ms)
Recommend Cut-off voltage	38.4V
BMS Discharge Cut-off	36.8V
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	58.4V (1 ± 0.2S)
Reconnect Voltage	56.8V - 58.4V
Balancing Current	2A
Balancing Voltage	3.4V
Charge Current (-20 to -10 °C)	≤0.05 C

FEATURES & BENEFITS

- HIGH CYCLE LIFE: > 6000 times 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



MECHANICAL SPECIFICATIONS

Dimensions (L*W*H)	483*200*490mm
Weight	45KG ± 0.5KG
Terminal Type	Screw Stud
Case Material	Metal Casing
Enclosure Protection	IP55
Cell Type: Prismatic/Pouch	16S2P
Total Cells	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

Smart Function: Included on R5685

Optional: R5232 / Bluetooth

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

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