

BATTERY DATASHEET

LiFePO4 Series



**2X MORE POWER.
5X LONGER LIFE.**

ENERGY STORAGE AS IT SHOULD BE.

Twice the storage & half the weight as lead-acid batteries, Voltanics 120ah LifePO4 drop-in leisure battery is perfect for all and any off-grid solar systems.

12.8V 120AH

LiFePO4 Series



Features & Benefits



5 YEARS WARRANTY



GRADE A+ CELLS



**BUILT-IN BMS
PROTECTION SYSTEM**



RAPID CHARGING



FULL COMPLIANT



HIGH CYCLE LIFE



VOLTANIC

12.8V 120AH

LiFePO4 Series



ELECTRICAL SPECIFICATIONS

Nominal Voltage	12V (12.8V)
Nominal Capacity	120Ah
Capacity @20A	5 HR
Energy	1536 Wh
Resistance	≤20mΩ
Efficiency	99%
Self discharge	< 3% per month
Max modules in series	4 pieces

CHARGE SPECIFICATIONS

Recommended Charge Current	20-50A
Max. Charge Current	50A
Peak Charge Current	100A(30s)
BMS Charge Voltage Cut-off	14.6V (1±0.2S)
Reconnect Voltage	14.2V-14.6V
Balancing Current	2A
Balancing Voltage	3.4V
Charge Current (-20 to -10 °C)	≤0.05 C

DISCHARGE SPECIFICATIONS

Recommend cont. discharge	50A
Max. Cont. Discharge Current	100A
Peak Discharge Current	200A(30s)
Recommend Cut-off voltage	9.6V
BMS Discharge Cut-off	9.2V
Short Circuit Protection	200-600 μs

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MECHANICAL SPECIFICATIONS

Dimensions (L*W*H)	33*17*23cm
Weight	11KG±0.5KG
Terminal Type	M8 Screw Stud
Case material	ABS
Enclosure Protection	IP65
Cell Type: Prismatic	4S5P

TEMPERATURE SPECIFICATIONS

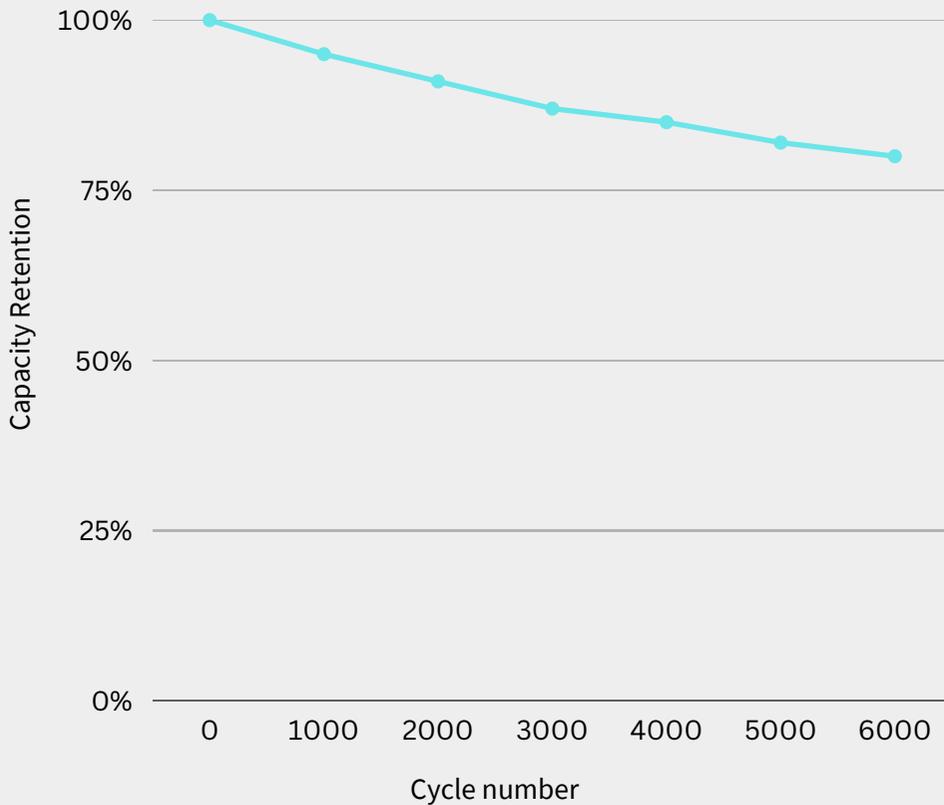
Discharge Temperature	-20°C to 60°C
Charge Temperature	0°C to 45°C
Storage Temperature	-20°C to 40°C
Peak High Temperature	80°C
Reconnect Temperature	50°C

12.8V 120AH

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The Charge/ Discharge curve of cell at 0.5C



CAN POWER:



Motorhome



Caravan



Campervan



Boat



Tiny house



Van

And much more..

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PRECAUTIONS:

- 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.
- Do not connect with batteries of different brands, types, or models..

WARRANTY:

The period of warranty is 5 years from the date of shipment. Voltanic guarantees to give a replacement in case of cells with defects proven due to manufacturing process instead of the customer abuse and misuse.