

R51100

Residential Energy Storage Battery Series



[R51100]

Widely Compatibility: support major leading inverter brands and conventional VRLA powered system.

Superior Safety: build-in BMS——eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation with safe lithium iron phosphate chemist.

Flexible Configuration: rack mount design easy to be installed. Optional HMI, max. 16 sets in parallel supported.

High Performance: support 1C or 100A charge/discharge, widely working temperature. Cells comply with CE, UL and IEC standards.

Technical Parameters

Nominal Voltage (V)	51.2
Nominal Capacity (Ah)	100
Total Energy (Wh)	5120
Operating Voltage Range (V)	43.2 ~ 58.4
Standard Charge/Discharge Current (A)	50 CH / 50 DCH
Max. Charge/Discharge Current (A)	100 CH / 100 DCH
Peak Output Current (A)	150@10s
Lithium Chemistry	LiFePO ₄
Cycle Life	6000 @ 0.5C 80% DOD
Design Life	20 years
Scalability	Max 16P (less than 8P need no external setup)
Installation	Rack mount

Mechanical Specifications

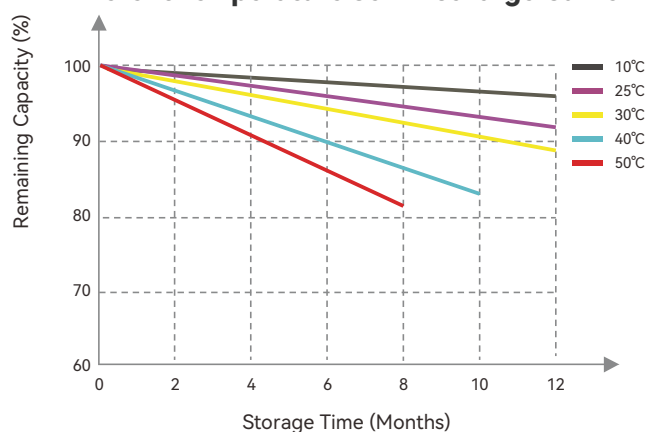
Dimension (mm)	W442 * D450 * H177
Weight (kg)	Approx. 44
Communication	RS485, CAN
Ingress Rating	IP 54
Safety Standards	UN38.3, CE

Environmental Specifications

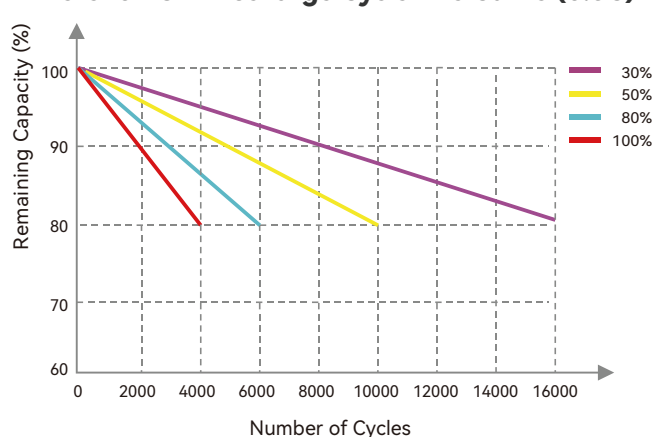
Storage Temperature (°C)	-20 ~ 55
Operating Temperature Charge (°C)	0 ~ 55
Operating Temperature Discharge (°C)	-20 ~ 60
Operating Relative Humidity	5 ~ 95%

Operating Performance

Different Temperature Self Discharge Curve



Different DOD Discharge Cycle Life Curve (0.5C)



Notes:

Battery should be kept in a dry and ventilated place, avoid direct contact with corrosive substances, also away from sources of fire and heat. Keep the SOC of the battery above 50% if you need to store it for an extended long period. It should be refresh charged every 3 months regularly and SOC should be maintained at about 50% if battery will be stored for a long term.

Compatible Inverters

Deye 德業

Growatt POWERING TOMORROW

MUST 美世乐

固德威 GOODWE

LU X POWER TEK

BLUESUN SOLAR BRASIL

f elicity

SRNE 碩日

Schneider Electric

victron energy BLUE POWER

Voltronic Power Advancing Power

SMA

MEGAREVO

SUMRY

SMK SOLAR

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Release: BO-PD-2407-1.0