



[F15KWH]

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Residential Energy Storage Battery Series

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: floor stand design easy to be installed. Optional HMI, max. 16 sets in parallel supported.

High Performance: support 1C or 140A charge/discharge, widely working temperature. Cells comply with CE, UL and IEC standards.

Technical Parameters

Nominal Voltage (V)	51.2
Nominal Capacity (Ah)	280
Total Energy (Wh)	15000
Usable Energy (Wh)	14000
Operating Voltage Range (V)	43.2 ~ 58.4
Standard Charge/Discharge Current (A)	140 CH / 140 DCH
Max. Charge/Discharge Current (A)	200 CH / 200 DCH
Peak Output Current (A)	250@500ms
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	Floor Stand

Mechanical Specifications

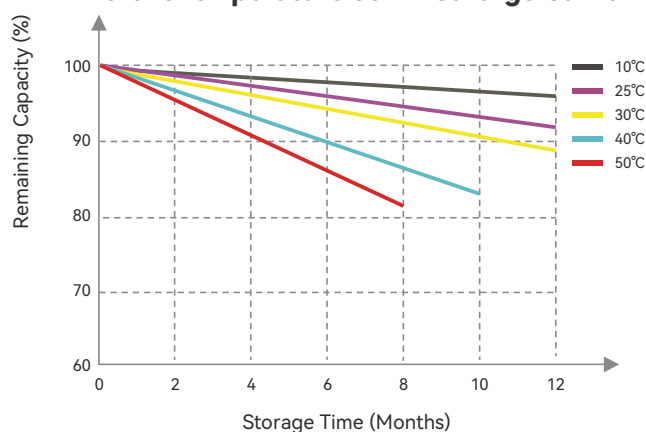
Dimension (mm)	W573 * D168 * H981
Weight (kg)	Approx. 130
Communication	RS485, CAN
Ingress Rating	IP 21
Safety Standards	UN38.3, CE

Environmental Specifications

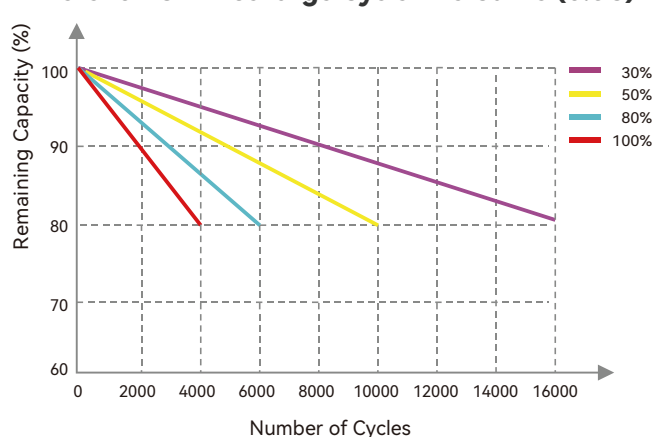
Storage Temperature (°C)	-20 ~ 55
Operating Temperature Charge (°C)	0 ~ 55
Operating Temperature Discharge (°C)	-20 ~ 60
Operating Relative Humidity	5 ~ 95%

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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