

Schematic diagram of integrated photovoltaic energy storage



Since the BMS is a hardware version, this battery level indicator does not 100% represent the actual change in SOC. It is only for reference purposes and should not be relied upon completely as an indication of the actual battery level.

ESENER

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ESENER

ES12.8V100Ah User Manual



**ESENER LITHIUM
ES12.8V100Ah**

ES12.8V100Ah

- 1.The appearance size is greatly reduced
- 2.Wall mounted/shelf installation available
- 3.Added switch button
- 4.The three-year warranty cannot be achieved for the plastic housing, we replaced it with sheet metal shell
- 5.Support in parallel & series connection(Max 2s2p)
- 6.The heat dissipation capacity of the product is greatly improved, and the whole battery supports 1C charge and discharge
- 7.Low self discharge
8. Built in protection for over-charge, over-discharge & over-temperature

Reminder: Since BMS is not a software version, the battery display screen is not accurate . It is only for reference and decoration purposes. Do not use battery screen indicator light as a basis for battery capacity !

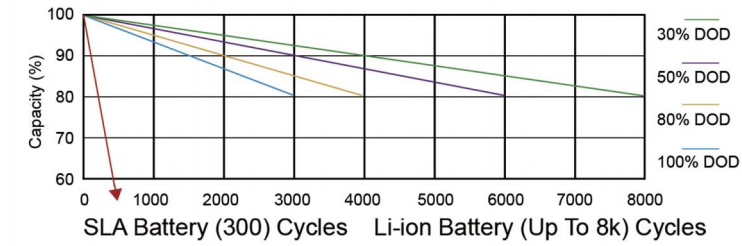
Main models & Technical spec

Index	Spec
Model	ES12.8V100Ah
Nominal Voltage	12.8V
Nominal Capacity @ 1C	100Ah
Equalized Charge Voltage	14.6V
Discharge Cut-off Voltage	11.5V
Float Voltage	13.5V
Bulk Voltage	13.8-14.2V
Discharge Current Max Continuous	100A
Pulse Current 5 Sec	120A
Weight	14.1±0.3Kg
Dimensions L*W*H(mm)	300*380*152 mm

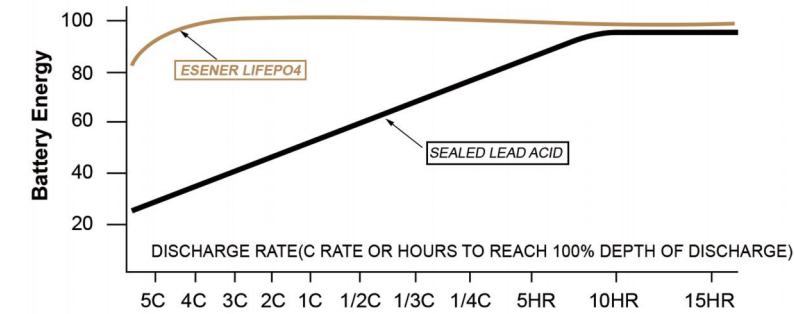
Index	Spec
Operation Temperature	Charging:0°C to 50°C
	Discharging:-10°C to 50°C
Storage Temperature	-10~50°C
Relative Humidity(RH)	20-60(No Condensed Water)
Protection	IP55
Safety Certificate	UN38.3,IEC,MSDS

CURVES

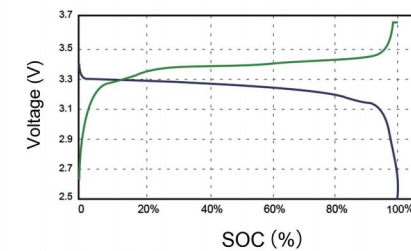
Cycle Life @ 1C-LiFePO4 VS. SLA



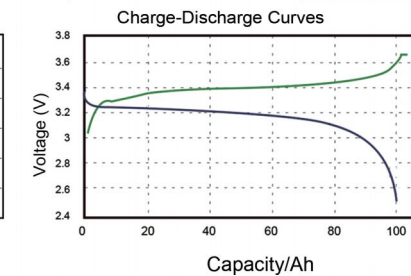
Energy Capacity VS. Discharge Rate



Charge/Discharge Curve SOC%



Charge/Discharge Curve Capacity/Ah



Battery installation steps

