



Long Lasting Backup With the **BEST** Inverter Battery!!



LOW VOLTAGE BATTERY

PERFECT COMPATIBILITY

Suitable for 1 and 3 phases, hybrid and retrofit inverters.

CYCLE LIFE

> 6000 Cycles

1C@25°C RATE SUPPORT

Maximum charge/discharge rate 1C@25°C

SAFE & RELIABLE

Reliable LFP battery cell with high cycle stability

FLEXIBLE INVESTMENT

5kWh Modular Design, Flexibility Configuration-Max. 8 cluster in parallel

HIGH EFFICIENCY

Charge and discharge with high efficiency



LIFE



TECHNICAL PARAMETERS

Battery Module	CSE-ESS-51.2V100Ah
Rated Energy (kWh) ¹	5.12
Usable Energy (kWh) ¹	4.6
Battery Module Energy	5.12kWh
Cell Type	LFP (LiFePO ₄)
Cell Configuration	16S1P
Rated Capacity (Ah)	100
Nominal Voltage (V)	51.2
Operating Voltage Range (V)	40~57.6
Recommend Voltage Range (V)	44.8~56.8
Recommend Charge/Discharge Current (A)	50
Recommend Charge/Discharge Power (kW)	2.56
Max. Charging/Discharging Current (A)	100
Max. Charging/Discharging Power (kW)	5.12
Weight (kg)	45
Dimensions (W × H × D mm)	454×585×135
Communication	RS485, RS232, CAN
Operating Temperature (°C)	Charge: 0 ~ +55; Discharge: -20 ~ +55
Operating Temperature (Recommended) (°C)	15~30
Relative Humidity	5%~95%
Cycle Life	>6000 (25°C @ 77°F)
Recommend DOD	90%
Environment	Indoor
Cooling	Natural convection
Ingress Protection Rating	IP20
Max. Operating Altitude (m)	2000
Mounting Method	Floor stand
Certificates	CE, IEC62619, UN38.3
Product Warranty	10 years warranty

Note:

1. Value for Battery Cell Only (Depth of Discharge 90%). Actual usable energy at the AC output may vary by condition, such as the battery converter, inverter efficiency and temperature.
2. Crown Solar Energy recommends 50A@2.5kW for maximum battery module lifetime. Max dis-/charge current and power derating will occur related to temperature and SOC