



ELEKTRA BOOST PRO

CSE-5.12KWh 48V-100Ah



PERFECT COMPATIBILITY

Seamlessly compatible with single-phase, three-phase hybrid, and retrofit inverter systems.



CYCLE LIFE

Industry-leading lifespan with over 6,000 charge-discharge cycles.



1C@25°C RATE SUPPORT

High charge and discharge efficiency with 1C rate at 25°C for optimal performance.



SAFE & RELIABLE

Built with advanced LFP (Lithium Iron Phosphate) cells ensuring unmatched safety and long-term reliability.



FLEXIBLE INVESTMENT

Scalable 5kWh modular design, supporting up to 8 clusters in parallel for flexible energy solutions.



HIGH EFFICIENCY

Exceptional energy efficiency for faster charging and optimized power delivery.



TECHNICAL PARAMETERS

BATTERY MODULE	CSE-ESS(P)-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
Parallel Function	Upto 15
Weight (kg)	45
Dimensions (W × H × D mm)	325x600x150
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	IP21
Max. Operating Altitude (m)	2000
Mounting Method	Wall-Mounted, Floor Stand
Certificates	CE, IEC62619, UN38.3

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