CROWN SOLAR ENERGY

ELEKTRA BOOST PRO

CSE-ESS(P):51.2V 314Ah

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

CYCLE LIFE
Industry-leading lifespan with over 8,000 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 superior safety and long-term reliability.

FLEXIBLE INVESTMENT
Scalable 16kWh modular design, supporting multiple units in parallel for flexible energy solutions.

HIGH EFFICIENCY
Exceptional energy efficiency for faster charging and optimized power delivery.

IP65 Waterproof and Dustproof Protection

24/7 AFTER SALES SERVICE

CROWN EASY REPLACEMENT WARRANTY

TECHNICAL PARAMETERS

BATTERY MODULE	CSE-ESS(P):51.2V 314AH
Rated Energy (kWh)1	16
Usable Energy (kWh)1	14.4
Battery Module Energy	16kWh
Cell Type	LFP ($LiFePO_4$)
Cell Configuration	16S
Rated Capacity (Ah)	314
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)	100
Recommend Charge/Discharge Power (kW)	5.12
Max. Charging/Discharging Current (A)	160
Max. Charging/Discharging Power (kW)	8.19
Parallel Function	Upto 16
Weight (kg)	120
Dimensions (W × H × D) mm	480 x 855 x 235
Communication	CAN, RS485
Operating Temperature (°C)	Charge: 0 ~ +55, Discharge: -20 ~ +55
Operating Temperature (Recommended) (°C)	15~30
Relative Humidity	5%~95%
Cycle Life	>8000 (25°C @ 77°F)
Recommend DOD	80%
Environment	Indoor
Cooling	Natural convection
Ingress Protection Rating	IP65
Max. Operating Altitude (m)	2000
Mounting Method	Floor Stand
Certificates	UN38.3

Note:

1. Value for battery cell only (Depth of Discharge 90%). Actual usable energy at the AC output may vary depending on conditions such as the battery converter, inverter efficiency, and temperature.
2. Recommended charge/discharge current is 100A (5.12kW) to ensure maximum battery module lifetime. Maximum charge/discharge current and power derating may occur depending on temperature and SOC.