



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.



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		IP20
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.