ES100 II

Lithium Battery Module



48V 105Ah 5.04kWh

ES100 II is the latest 48V 105Ah lithium battery module provided by TBB POWER, designed for backup power system, solar off-grid system, and residential energy storage systems, with good compatibility, high energy density, fashionable design and safe long cycling life. Designed with the functionality to automatically assign the communication address of the slave modules, ES100 II greatly simplifies the parallel connection process.

- Safe lithium iron phosphate battery cell with high energy density, compact design
- Support up to 32 modules in parallel
- Automatically assign the communication address of the slave modules, easy to install
- Support short-time high-current charge and discharge
- Advanced high capacity, 90% DoD and 6000 cycles life
- Support external CAN communication, compatible with leading inverter brands

- Integrated with RS485 communication port, supports RS485 communication with TBB inverters
- Universal positive and negative terminals, convenient for users to install
- Coming standard with 300A parallel bus bar
- Available with simple mounting brackets and RACK cabinet with IP65 protection grade
- Equipped with intelligent BMS for each battery pack to manage modules effectively
- Practical pull ear design improves operation convenience

Optional Accessories



Simple Mounting Bracket



IP65 Power Rack Cabinet

Model	ES100 II
Configuration	15S1P
Nominal Voltage (V)	48
Work Voltage Range (V)	42~54.75
Nominal Capacity (Ah)	105
Nominal Energy (kWh)	5.04
Max Power (kW)	5.04
Peak Current (A)	120
Charge Current (A)	52.5
Maximum Charge Current (A)	105
Discharge Current (A)	52.5
Maximum Discharge Current (A)	105
Cycle Life	6000 (90% DoD), @25℃, 0.5C
Operating Temperature	Discharge: -20℃~+55℃ Charge: 0℃~+55℃
Recommended Operating Temperature	Discharge: +15℃~+30℃ Charge: +15℃~+30℃ Storage: 0℃~+35℃, 3 months
Altitude	<2000m
Humidity	<95% (without condensation)
Cooling Method	Natural heat dissipation
Protection Degree	IP20
Dimension (mm) (W x H x D)	482.6 x 133.4 x 450
Weight (kg)	40
Standards	IEC62619 / CE / UN38.3