

## 5.04kWh Lithium Battery ES100



ES100 is the latest lithium battery module provided by BETTER, 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 .

By using a certain number of ES100, users are able to form a battery storage system with a larger capacity through parallel connection (up to 32 units), satisfying their energy demands in the long run. ES100 is typically suitable for applications with high operating temperature, limited installation space, and requiring long power backup time and long service life.

- **Safe and compact:** lithium iron phosphate battery cell with high energy density, compact design
- **Parallel connection:** support up to 32 modules in parallel for longer backup time
- **Comprehensive protection:** protection against overcharge, over-discharge, over-current, over-temperature, under-temperature and short-circuit
- **High capacity and longer life:** 90% DOD and 6000 cycles life
- **CAN communication:** Support external CAN communication, compatible with leading inverter brands
- **RS485 communication:** Support parallel communication via RS485
- Support **short-time high-current charge and discharge**
- **Universal positive and negative terminals**, convenient for users to install
- Coming standard with **300A parallel copper bus bar**
- Optional **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
- **Good ventilation and low noise**

### ES100 Module Specifications



Model	ESS
Capacity (kWh)	5.04
Capacity (Ah)	105
Voltage (Vdc)	48
Work Voltage Range(Vdc)	42~54.75
Charge Voltage (Vdc)	53.5
Charging/ Discharging Current(A)	52.5
Maximum Charging/ Discharging Current (A)	105
2S Peak Current(A)	120
2S Peak Power(kW)	5.76
Cycle Life	6000 Cycles life, 90%DOD
Communication	CAN, RS485
Protection Degree	IP20
Weight (kg)	41
Dimension (mm)(L*W*H)	482*445*133
Operating temperature	Discharge: -20℃ ~+55℃
	Charge: 0℃ ~+55℃
Recommended Operating Temperature	Discharge: +15℃ ~+35℃
	Charge: +15℃ ~+35℃
	Storage: -20℃ ~+35℃
Altitude	<4000m
Humidity	5%~95%
Cooling method	Natural heat dissipation
CE	EN 61000-6-1:2007, EN IEC 61000-6-2:2019, EN 61000-6-3:2007+A1:2011/AC:2012, EN IEC 61000-6-4:2019
Safety	UN38.3

