

## Lithium Battery Module

# ES100

48V 105Ah 5.04kWh



ES100 is the latest 48V 105Ah lithium battery module provided by TBB POWER, designed for backup power system, solar off-grid system, and residential, industrial & commercial energy storage systems, with good compatibility, high energy density, fashionable design and safe long cycling life.

- Safe lithium iron phosphate battery cell with high energy density, compact design
- Support up to 32 modules in parallel
- 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
- 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**



**PDP-ES**  
(For power distribution)



**IP65 Power Rack Cabinet**

Model	ES100
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
2S Peak Power(kW)	5.76
2S Peak Current(A)	120
Charging Current(A)	52.5
Maximum Charging Current (A)	105
Discharge Current (A)	52.5
Maximum Discharging Current (A)	105
Cycle life	90%DOD, 6000 cycles life
Operating temperature	Discharge: -20°C~+55°C
	Charge: 0°C~+55°C
Recommended Operating Temperature	Discharge: +15°C~+35°C
	Charge: +15°C~+35°C
	Storage: -20°C~+35°C
Altitude	<4000m
Humidity	5%~95%
Cooling method	Natural heat dissipation
Protection Degree	IP20
Dimension (mm) (L*W*H)	482*445*133
Weight (kg)	41
Safety	UN38.3
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