# ES Series

48V

Supporting rack or wall mounting, ES series are high-performance, high-density, compact lithium batteries designed for a range of residential and business applications. Enjoy reliable backup power, energy independence and big savings on electricity bills, with our ES Series batteries.

**Performance:**

- High energy density benefits from latest LFP technology
- Automatic assignment of communication addresses for slave modules
- Intelligent BMS for efficient module management

**Reliability:**

- Multi-protection
- 7+3 years warranty

**Flexibility:**

- Supports parallel operation of up to 32 units (160 units with CAN HUB)
- Supports CAN and RS485 communication, compatible with mainstream inverter brands
- Supports wall-mounting and rack-mounting (via optional mounting bracket)
- Local monitoring via E4 LCD Monitor (when working with TBB inverter)
- Remote monitoring via NOVA App & Web (when working with TBB inverter)




**ES100 II**

48V 105Ah 5.04kWh

- ✓ 6000 cycles, 90% DoD
- ✓ 1C charge/discharge rate
- ✓ Rack mounting




**ES5S**

48V 106Ah 5.09kWh

- ✓ 6000 cycles, 90% DoD
- ✓ 1C charge/discharge rate
- ✓ Rack or wall mounting

Note: Different battery models cannot be connected in parallel.

## Various Installation Ways

### ES5S







| Model | ES100 II | ES5S |
|---|---|---|
| Configuration | 15S1P | 15S1P |
| Nominal Voltage (V) | 48 | 48 |
| Working Voltage Range (V) | 42~54.75 | 42~54.75 |
| Nominal Capacity (Ah) | 105 | 106 |
| Nominal Energy (kWh) | 5.04 | 5.09 |
| Max. Power (kW) | 5.04 | 4.8 |
| Peak Current (A) | 120 | 120 |
| Charge Current (A) | 52.5 | 50 |
| Maximum Charge Current (A) | 105 | 100 |
| Discharge Current (A) | 52.5 | 50 |
| Maximum Discharge Current (A) | 105 | 100 |
| Cycle Life | 6000 (90% DoD), @25℃, 0.5C | 6000 (90% DoD), @25℃, 0.5C |
| Operating Temperature (℃) | Discharge: -20~+55<br>Charge: 0~+55 | Discharge: -20~+55<br>Charge: -20~+55 |
| Recommended Operating Temperature (℃) | Discharge: +15~+30<br>Charge: +15~+30<br>Storage: 0~+35, 3 months | |
| Altitude (m) | <2000 | |
| Humidity | <95% (without condensation) | |
| Cooling Method | Natural heat dissipation | |
| Protection Degree | IP20 | |
| Dimension (mm) (W*H*D) | 482.6*133.4*450 | 482.6*133.4*450 |
| Weight (kg) | 40 | 40 |
| Standards | IEC62619 / CE / UN38.3 / UL1973 | CE / UN38.3 |