

Residential ESS BluE-S Series All in One

NEW

Three Phase / All-in-one Hybrid System / 4-6 kW

Save Your Energy Bill

- ▶ Optimized Time-of-use Profile
- ▶ 10000 Cycles Lifespan
- ▶ VPP Ready

Whole Home Energy Solution

- ▶ Support On-grid and Off-grid Switching
- ▶ AC-coupling or DC-coupling System
- ▶ Optional Generator Connection

Comprehensive Safety

- ▶ Alarm and Protection
- ▶ Online Monitoring
- ▶ Compliant with Global Grid Standards



| Battery Model | | BluE-PACK 5.1 | |
|--------------------------|--|-------------------------------|---|
| Physical | | Operation | |
| Battery type | LFP (LiFePO4) | Max. Charge/Discharge Current | 50 A / 80 A |
| Weight | 54 kg | Rated DC power | 4096 W |
| Dimensions (W x H x D) | 540 x 490 x 240 mm | Max. Charge/Discharge Power | 2825 W / 4096 W |
| IP Protection | IP65 | Operating Temperature Range | -10 to 50°C (Charging); -10 to 50°C (Discharging) ¹⁾ |
| Warranty | 5 Year Product Warranty, 10 Year Performance Warranty | Humidity | 0 ~ 95% (No condensation) |
| Electrical | | BMS | |
| Energy Capacity | 5.12 kWh | Modules Connection | Max. 4 |
| Usable Capacity | 4.6 kWh | Capacity | 100 / 200 / 300 / 400 Ah |
| Depth of Discharge (DoD) | 90% | Power Consumption | < 2 W |
| Nominal Voltage | 51.2 V | Communication | CAN & RS-485 |
| DC Circuit Breaker | 125 A | Monitoring Parameters | System voltage, current, cell voltage, cell temperature, PCBA temperature measurement |
| Operating Voltage Range | 44.8 ~ 56.5 V | Certificate | |
| Internal Resistance | < 20mΩ | Safety(Cell) | Pack: IEC/EN 62619; UN 38.3 Cell: IEC/EN 62619; UN 38.3; UL 1973 |
| Cycle Life | 10000 cycle | | |

FourSat Kish

| Hybrid Inverter Model | E4KT | E5KT | E6KT |
|--|---------------|-----------------------------|---------------|
| PV Input | | | |
| Recommended Max. PV Array Input Power @STC | 8 kWp | 10 kWp | 12 kWp |
| Max. DC Voltage | | 1000 V | |
| Nominal Voltage | | 720 V | |
| MPPT Voltage Range | | 140 V ~ 950 V | |
| MPPT Voltage Range (Full Load) | 200 V ~ 850 V | 230V ~ 850 V | 250 V ~ 850 V |
| Start Voltage ²⁾ | | 200 V | |
| Number of MPPT | | 2 | |
| Strings per MPPT | | 1 | |
| Max. Input Current per MPPT | | 15A | |
| Max. Short-circuit Current per MPPT | | 20 A | |
| AC Output (Grid) | | | |
| Nominal AC Output Power | 4 kW | 5 kW | 6 kW |
| Max. AC Apparent Power | 4.4 kVA | 5.5 kVA | 6.6 kVA |
| Nominal AC Voltage | | 400 Vac | |
| AC Grid Frequency Range | | 50 / 60Hz ±5Hz | |
| Nominal Output Current | 5.8 A | 7.3 A | 8.7 A |
| Max. Output Current | 6.4 A | 8 A | 9.6 A |
| Power Factor (cosΦ) | | 0.8 leading - 0.8 lagging | |
| THDi | | <3% | |
| Battery Input | | | |
| Battery Type | | LFP (LiFePO4) | |
| Nominal Battery Voltage | 51.2 V | 51.2 V | 51.2 V |
| Charging Voltage Range | | 44 ~ 58 V | |
| Max. Charging Current | 80 A | 100 A | 100 A |
| Max. Discharging Current | 80 A | 100 A | 120 A |
| Battery Capacity | | 100 / 200 / 300 / 400 Ah | |
| AC Output (Backup) | | | |
| Nominal AC Output Power | 4 kW | 5 kW | 6 kW |
| Max. AC Output Power | 4 kVA | 5 kVA | 6 kVA |
| Nominal Output Current | 5.8 A | 7.3A | 8.7 A |
| Max. Output Current | 5.8 A | 7.3 A | 8.7 A |
| Nominal Output Voltage | | 400 V | |
| Nominal Output Frequency | | 50 / 60Hz | |
| Output THDv (@Linear Load) | | < 2% (Linear Load) | |
| Efficiency | | | |
| Max. PV Efficiency | | 97.60% | |
| Euro. PV Efficiency | | 97.00% | |
| Protection | | | |
| Anti-islanding Protection | | Yes | |
| Output Over Current Protection | | Yes | |
| DC Reverse Polarity Protection | | Yes | |
| String Fault Detection | | Yes | |
| AC / DC Surge Protection | | DC Type II; AC Type III | |
| Insulation Detection | | Yes | |
| AC Short Circuit Protection | | Yes | |
| General Specifications | | | |
| Dimensions (W x H x D) | | 540 x 980 x 240 mm | |
| Weight | | 47 kg | |
| Operating Temperature Range | | -25°C ~ + 60°C | |
| Cooling Type | | Natural Convection | |
| Max. Operation Altitude | | 2000 m | |
| Operation Humidity | | 0 ~ 95% (No Condensation) | |
| IP Class | | IP66 | |
| Topology | | Battery Isolation | |
| Communication | | RS-485 / CAN2.0 / WIFI / 4G | |
| Display | | LCD / APP | |

1) The operating temperature parameters only apply to battery pack models equipped with heating function. For battery pack models without heating function, the operating temperature range will be: 0 to 50°C(Charging), -10 to 50°C (Discharging).
2) Minimum voltage for inverter to start power output.

