

BluE-S Series Residential ESS NEW

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

Save Your Energy Bill

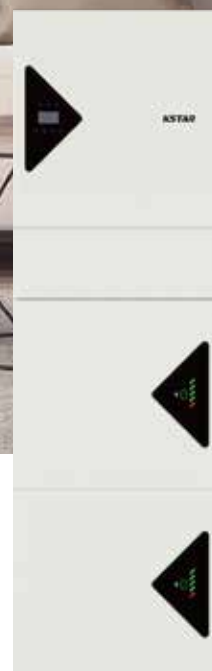
- ▶ Optimized Time-of-use Profile
- ▶ 10000 Cycles Lifespan
- ▶ VPP Ready

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
Cycle Life	10000 cycle		Cell: IEC/EN 62619; UN 38.3; UL 1973

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.