

BluE-S Series Residential ESS

Three Phase / All-in-one Hybrid System / 10 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	
Physical	
Battery Type	LFP (LiFePO4)
Weight	54 kg
Dimensions (W x H x D)	540 x 490 x 240 mm
IP Protection	IP65
Warranty	5 Year Product Warranty, 10 Year Performance Warranty
Electrical	
Energy Capacity	5.12 kWh
Usable Capacity	4.6 kWh
Depth of Discharge (DoD)	90%
Nominal Voltage	51.2 V
DC Circuit Breaker	125 A
Operating Voltage Range	44.8 ~ 56.5 V
Internal Resistance	< 20 mΩ
Cycle Life	10000 cycle

BluE-PACK5.1	
Operation	
Max. Charge/Discharge Current	50 A / 80 A
Rated DC power	4096 W
Max. Charge/Discharge Power	2825 W / 4096 W
Operating Temperature Range	-10 to 50°C charging ; -10 to 50°C discharging
Humidity	0 ~ 95% (No condensation)
BMS	
Modules Connection	Max. 8
Capacity	200 / 400 / 600 / 800 Ah
Power Consumption	< 2 W
Communication	CAN & RS-485
Monitoring Parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature measurement
Certificate	
Safety (Cell)	Pack: IEC/EN 62619; UN 38.3 Cell: IEC/EN 62619; UN 38.3; UL 1973

*All specifications are subject to change without prior notice.

Hybrid Inverter Model	E10KT
PV String Input	
Recommended Max. PV Array Input Power @STC	20 kWp
Max. Continuous PV Input Power	20 kW
Max. DC Voltage	1100 V
Nominal Voltage	720 V
MPPT Voltage Range	140 ~ 1000 V
MPPT Voltage Range (Full Load)	420 ~ 850 V
Start Voltage ¹⁾	200 V
Number of MPPT	2
Strings Per MPPT	1
Max. Input Current Per MPPT	15 A
Max. Short-circuit Current Per MPPT	20 A
AC Output (Grid)	
Nominal AC Output Power	10 kW
Max. AC Apparent Power	11 kVA
Nominal AC Voltage	400 Vac
AC Grid Frequency Range	50 Hz / 60 Hz (±5 Hz)
Nominal Output Current	14.5 A
Max. Output Current	16 A
Power Factor (cosΦ)	0.8 (Leading) ~ 0.8 (Lagging)
THDi	< 3%
Battery Input	
Battery Type	LFP (LiFePO4)
Nominal Battery Voltage	51.2 V
Charging Voltage Range	44 ~ 58 V
Max. Charging Current	160 A
Max. Discharging Current	200 A
Battery Capacity	200 / 400 / 600 / 800 Ah
AC Output (Backup)	
Nominal AC Output Power	9.2 kW
Max. AC Output Power	10 kVA
Nominal Output Current	13.3 A
Max. Output Current	14.5 A
Nominal Output Voltage	400 V
Nominal Output Frequency	50 Hz / 60 Hz
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
DC / AC 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	49 kg
Operating Temperature Range	-25°C ~ +60°C
Cooling Type	Natural Convection
Max. Operating Altitude	2000 m
Operating Humidity	0 ~ 95% (No Condensation)
IP Class	IP65
Topology	Battery Isolation
Communication	RS-485 / CAN 2.0 / WIFI / 4G
Display	LCD / APP
Certification & Standard	IEC/EN 62109-1&2; IEC/EN 61000-6-1; IEC/EN 61000-6-2; EN 61000-6-3; IEC/EN 61000-6-4; IEC/EN 61000-3-11; EN 61000-3-12; IEC 60529; IEC 60068; IEC 61683; IEC 62116; IEC 61727; EN 50549-1; MEA; PEA

1) Minimum voltage for inverter to start power output.