Serving inspiration with every generation

KSTAR
Powering the Future

Shenzhen KSTAR New Energy Co., Ltd.

Tel: +86-755-21389008 Ext 8508 Fax: +86-755-21389006
Web: www.kstar.com www.kstar.eu E-mail: info@kstar.com

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KSTAR
Powering the Future

Serving inspiration with every generation

K-Home

www.kstar.com www.kstar.eu

2025

ABOUT KSTAR

1993
KSTAR Established
Enter Offline UPS Field

1996
Overseas Expansion
Enter the European and US Market

1998
New Manufacturing Base
Guanlan Industrial Park Inaugurated in Shenzhen

2004
Further Development
Enter High-power Online UPS Field

2009
Enter New Energy Field
1st PV Inverter Produced

2010
IPO and Public Debut
Listed in Shenzhen Stock Exchange

2013
Explore New Opportunities
Enter the Electric Vehicles Market

2015
National Certified Technology Center
Certified by National Quality Management System

2019
CATL & KSTAR Partnership
Establish Joint Venture Factory with CATL

2021
Further Invest in ESS Facilities
Open Jiangxi Changxin Gold Sunshine Power Supply Co.,Ltd

2023
KSTAR Vietnam
Vietnam Plant in Operation

National-level Green Factory

2024
Construction of the High-end New Energy and Energy Storage Industrial Base

KSTAR

Serving inspiration with every generation

180+
Countries & Regions

60GW
PV Installation

30+
Years History

KSTAR, a leading global new energy solution provider founded in 1993, excels in key solar markets worldwide. Our expertise spans the spectrum, delivering cutting-edge PV inverters and energy storage systems for residential, commercial & industrial, and large-scale utility needs.

Backed by 30+ years of experience in electrical and electronic technology, KSTAR is committed to superior new energy solutions for a diverse clientele in 180 countries and regions, with an impressive 60GW of KSTAR products already installed globally.

We are always generating superior solutions for energy and more. Let’s power the future together.

Thriving Three Decades: Your Industrial Partner and Green Home Expert

BlueSpark Series Residential ESS NEW

Single Phase / All-in-one Hybrid System / 3.68-6 kW

Save Your Energy Bill

- Powered by CATL and EVE
- Human safe low-voltage solution
- Optional AFCI

Easy Installation

- Stackable design, no wiring required
- Compact and space-saving
- IP66 rating for protection

Smart Home Energy

- Supports Self Consumption, Peak Shaving,
- Time-of-use, and Battery Priority operation modes
- SG Ready Heat Pump compatible

Flexible Expansion

- Supports both on-grid and off-grid parallel configurations
- Max. 4 battery packs per system

High Performance

- DC / AC ratio up to 2
- Long battery cycle life

Smart O&M

- 24 / 7 cloud monitoring
- Easy commissioning via Bluetooth
- Remote firmware upgrades

Battery Model		BP40100PF1-G2/BP48100PF3-G2 [1]	
Genenral Parametersl		**Operation**	
Battery Type	LFP (LiFePO4)	Max. Continuous Charging Current	50 A (single battery pack)
Cell Brand	EVE / CATL(optional)	Max. Continuous Charging Power	2825 W
Energy Capacity	5.12 kWh [2]	Max. Continuous Disharging Current	80 A (single battery pack)
Usable Capacity	4.6 kWh [3]	Max. Continuous Disharging Power	4096 W
Max.Depth of Discharge	100%	Operating Temperature Range	-10 to 50℃ (Charging); -10 to 50℃ (Discharging) [4]
Norminal Voltage	51.2 V	Cooling Type	Natural Cooling
Operating Voltage Range	44.8 ~ 57.6 V	Humidity	0～95% (no condensation)
Battery Pack Round-Trip Efficiecy	> 94%	**BMS**	
Weight	51 kg / 55.9 kg	Modules Connection	Max. 8
Dimensions (W x H x D)	725 x 370 x 165 mm （PF1） 725 x 350 x 220 mm （PF3）	Capacity	100 / 200 / 300 / 400 Ah
IP Protection	IP65	Communication	CAN
Warranty	5 Year Product Warranty, 10 Year Performance	Monitoring Parameters	System voltage,current,battery voltage, Battery temperature,PCBA temperature measurement
Certificate			
Safety and Transportation	Pack: IEC/EN 62619; UN38.3; Cell:IEC/EN 62619; UN38.3; UL1973		

1) Refer to two models of battery pack: BP48100PF1-G2 (EVE cell) and BP48100PF3-G2 (CATL cell).
2) Total Energy Capacity is tested under the following conditions: @25°C, 0.5C charging/0.5C discharging, at the beginning of life.
3) Usable Energy Capacity refers to the energy discharged from 100% to the minimum state of energy (SoE).
4) The operating temperature parameters only apply to battery pack models with heating function. For battery pack models without heating function, the operating temperature range will be: 0 to 50℃(Charging), -10 to 50℃ (Discharging).

Hybrid Inverter Model	E3.68KS-D22	E5KS-D22	E6KS-D22
PV Input			
Recommended Max.PV Array Input Power @STC	7.2 kW	10 kW	10 kW
Max PV Voltage		500 V	
Nominal Voltage		360 V	
MPPT Voltage Range		120 ~ 480 V	
MPPT Voltage Range with Full Load	200 ~ 425 V	250 ~ 425 V	250 ~ 425 V
Start Voltage [1]		120 V	
Number of MPPT Tracker		2	
String per MPPT Tracker		1	
Max. Input Current per MPPT		20 A	
Max. Short-Circuit Current per MPPT		25 A	
AC Output & Input (Grid)			
Max. AC Continuous Output Power	3680 W	5000 W	6000 W
Max. AC Apparent Output Power	3680 VA	5000 VA	6000 VA
Max. Continuous Input Power	7360 W	9200 W	9200 W
Nominal AC Voltage		230 Vac	
Norminal Frequency		50 Hz / 60 Hz (±5 Hz)	
Norminal Output Current	16 A	21.7 A	26.1 A [2]
Max. Output Current	16.7 A	22.7 A	27.3 A [2]
Max. Input Current	32 A	40 A	40 A
Power Factor (cosΦ)		-0.8 (Lagging) ~ 0.8 (Leading)	
THDi		< 3%	
AC Output (Backup)			
Norminal AC Output Power	3680 W	5000 W	6000 W
Max. AC Output Power	3680 VA	5000 VA	6000 VA
Max. Output Current	16 A	21.7 A	26.1 A
Norminal Output Voltage		230 Vac	
Nominal Output Frequency		50 Hz / 60 Hz	
Output THDv (@Linear Load)		< 3% (Linear Load)	
Battery Input			
Battery Type		LFP (LiFePO4)	
Nominal Battery Voltage		48 V	
Charging Voltage Range		42 ~ 58 V	
Max. Charging / Discharging Current	80 A / 80 A	120 A / 120 A	125 A / 125 A
Rated Charging / Discharging Power	3600 W / 3900 W	5000 W / 5400 W	6000 W / 6400 W
Battery Capacity		100 ~ 400 Ah	
Efficiency			
Max. PV Efficiency		97.2%	
Euro. Efficiency	95.9%	96.4%	96.5%
Protection			
DC Switch		Integrated	
Anti-islanding Protection		Integrated	
Residual Current Monitoring		Integrated	
AC Short Circuit Protection		Integrated	
AC Overvoltage Protection		Integrated	
DC / AC Surge Protection		DC Type II; AC Type III	
Remote Shutdown		Integrated	
AFCI		Optional	
General Specification			
Dimensions (W x H x D)		725 × 390 × 230 mm	
Weight	24.8 kg	25.5 kg	25.5 kg
Operating Temperature Range		-25°C to + 60°C (> 45°C derating)	
Cooling Type		Natural Convection	
Max. Operation Altitude		≤ 4000 m	
Operation Humidity		0～95% (no condensation)	
IP Class		IP66	
Topology		High Frequency Isolation	
Communication		RS485 / WIFI / (4G / Ethernet optional)	
Display		LED+Bluetooth / APP / WEB	
Certification & Standard		IEC/EN62109-1&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 61727; IEC 62116; IEC 60068; IEC 61683; EN 50549-1; EN 50549-10; VDE-AR-N 4105; G98/G99; NC RfG:2018; C10/C11; CEI-021	

1) Minimum voltage for inverter to start power output.
2) Nominal Output current and Maximum output current is 25A for Ireland

BlueSpark Series Residential ESS NEW

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

Save Your Energy Bill
- Powered by CATL and EVE
- Human safe low-voltage solution
- Optional AFCI

Easy Installation
- Stackable design, no wiring required
- Compact and space-saving
- IP66 rating for protection

Smart Home Energy
- Supports Self Consumption, Peak Shaving, Time-of-use, and Battery Priority operation modes
- SG Ready Heat Pump compatible

Flexible Expansion
- Supports both on-grid and off-grid parallel configurations
- Max. 8 battery packs per system

High Performance
- DC / AC ratio up to 2
- Long battery cycle life
- 100% three-phase unbalanced output

Smart O&M
- 24 / 7 cloud monitoring
- Easy commissioning via Bluetooth
- Remote firmware upgrades

Battery Model	BP40100PF1-G2/BP48100PF3-G2 [1]
Genenral Parametersl	**Operation**
Battery Type: LFP (LiFePO4)	Max. Continuous Charging Current: 50 A (single battery pack)
Cell Brand: EVE / CATL(optional)	Max. Continuous Charging Power: 2825 W
Energy Capacity: 5.12 kWh [2]	Max. Continuous Disharging Current: 80 A (single battery pack)
Usable Capacity: 4.6 kWh [3]	Max. Continuous Disharging Power: 4096 W
Max.Depth of Discharge: 100%	Operating Temperature Range: -10 to 50℃ (Charging); -10 to 50℃ (Discharging) [4]
Norminal Voltage: 51.2 V	Cooling Type: Natural Cooling
Operating Voltage Range: 44.8 ~ 57.6 V	Humidity: 0 ~ 95% (no condensation)
Battery Pack Round-Trip Efficiecy: > 94%	**BMS**
Weight: 51 kg / 55.9 kg	Modules Connection: Max. 8
Dimensions (W x H x D): 725 x 370 x 165 mm (PF1) 725 x 350 x 220 mm (PF3)	Capacity: 100 / 200 / 300 / 400 / 500 / 600 / 700 / 800 Ah
IP Protection: IP65	Communication: CAN
Warranty: 5 Year Product Warranty, 10 Year Performance	Monitoring Parameters: System voltage,current,battery voltage, Battery temperature,PCBA temperature measurement
Certificate	
Safety and Transportation: Pack: IEC/EN 62619; UN38.3; Cell:IEC/EN 62619; UN38.3; UL1973	

1) Refer to two models of battery pack: BP48100PF1-G2 (EVE cell) and BP48100PF3-G2 (CATL cell).
2) Total Energy Capacity is tested under the following conditions: @25°C, 0.5C charging/0.5C discharging, at the beginning of life.
3) Usable Energy Capacity refers to the energy discharged from 100% to the minimum state of energy (SoE).
4) The operating temperature parameters only apply to battery pack models with heating function. For battery pack models without heating function, the operating temperature range will be: 0 to 50℃(Charging), -10 to 50℃ (Discharging).

Hybrid Inverter Model	E4KT-D22	E5KT-D22	E6KT-D22
PV Input			
Recommended Max.PV Array Input Power @STC	10 kW	11 kW	12 kW
Max PV Voltage		1000 V	
Nominal Voltage		720 V	
MPPT Voltage Range		140 ~ 950 V	
MPPT Voltage Range with Full Load	200 ~ 800 V	230 ~ 800 V	250 ~ 800 V
Start Voltage [1]		200 V	
Number of MPPT Tracker		2	
String per MPPT Tracker		1	
Max. Input Current per MPPT		20 A	
Max. Short-Circuit Current per MPPT		25 A	
AC Output & Input (Grid)			
Max. AC Continuous Output Power	4000 W	5000 W	6000 W
Max. AC Apparent Output Power	4400 VA	5500 VA	6000 VA
Max. Continuous Input Power	10000 W	11000 W	12000 W
Nominal AC Voltage		400 Vac	
Norminal Frequency		50 Hz / 60 Hz (±5 Hz)	
Norminal Output Current	5.8 A	7.3 A	8.7 A
Max. Output Current	13.1 A	13.1 A	13.1 A
Max. Input Current	21.0 A	22.6 A	22.6 A
Power Factor (cosΦ)		-0.8 (Lagging) ~ 0.8 (Leading)	
THDi		< 3%	
AC Output (Backup)			
Norminal AC Output Power	4000 W	5000 W	6000 W
Max. AC Output Power	4000 VA	5000 VA	6000 VA
Norminal Output Current	5.8 A	7.3 A	8.7 A
Max. Output Current	13.1 A	13.1 A	13.1 A
Norminal Output Voltage		400 Vac	
Nominal Output Frequency		50 Hz / 60 Hz	
Output THDv (@Linear Load)		2% (Linear Load)	
Battery Input			
Battery Type		LFP (LiFePO4)	
Nominal Battery Voltage		51.2 V	
Charging Voltage Range		44 ~ 58 V	
Max. Charging / Discharging Current	100 A / 100 A	120 A / 120 A	120 A / 150 A
Rated Charging / Discharging Power	4000 W	5000 W	6000 W
Battery Capacity		100 ~ 800 Ah	
Efficiency			
Max. PV Efficiency		96.6 %	
Euro. Efficiency		94.5 %	
Protection			
DC Switch		Integrated	
Anti-Islanding-Protection		Integrated	
Residual Current Monitoring		Integrated	
PV Reverse Polarity Protection		Integrated	
AC Short Circuit Protection		Integrated	
AC Overvoltage Protection		Integrated	
DC / AC Surge Protection		DC Type II; AC Type III	
Remote Shutdown		Integrated	
AFCI		Optional	
General Specification			
Dimensions (W x H x D)		725 × 490 × 245 mm	
Weight		40 kg	
Operating Temperature Range		-25°C to + 60°C (> 40°C derating)	
Cooling Type		Natural Convection	
Max. Operation Altitude		≤3000m	
Operation Humidity		0 ~ 95% (no condensation)	
IP Class		IP66	
Topology		High Frequency Isolation	
Communication		RS485 / WIFI / (4G / Ethernet optional)	
Display		LED+Bluetooth / APP / WEB	
Certification & Standard		IEC/EN62109-1&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 61727; IEC 62116; IEC 60068; IEC 61683; EN 50549-1; EN 50549-10; VDE-AR-N 4105; NC RfG:2018; C10/C11	

1) Minimum voltage for inverter to start power output.

BlueSpark Series Residential ESS NEW

Three Phase / All-in-one Hybrid System / 8–12 kW

Save Your Energy Bill

- Powered by CATL and EVE
- Human safe low-voltage solution
- Optional AFCI

Easy Installation

- Stackable design, no wiring required
- Compact and space-saving
- IP66 rating for protection

Smart Home Energy

- Supports Self Consumption, Peak Shaving, Time-of-use, and Battery Priority operation modes
- SG Ready Heat Pump compatible

Flexible Expansion

- Supports both on-grid and off-grid parallel configurations
- Max. 8 battery packs per system

High Performance

- DC / AC ratio up to 2
- Long battery cycle life
- 100% three-phase unbalanced output

Smart O&M

- 24 / 7 cloud monitoring
- Easy commissioning via Bluetooth
- Remote firmware upgrades

Battery Model	BP40100PF1-G2/BP48100PF3-G2 [1]
Genenral Parametersl	**Operation**
Battery Type	LFP (LiFePO4)
Cell Brand	EVE / CATL(optional)
Energy Capacity	5.12 kWh [2]
Usable Capacity	4.6 kWh [3]
Max.Depth of Discharge	100%
Norminal Voltage	51.2 V
Operating Voltage Range	44.8 ~ 57.6 V
Battery Pack Round-Trip Efficiecy	> 94%
Weight	51 kg / 55.9 kg
Dimensions (W x H x D)	725 x 370 x 165 mm (PF1) 725 x 350 x 220 mm (PF3)
IP Protection	IP65
Warranty	5 Year Product Warranty, 10 Year Performance
Certificate	
Safety and Transportation	Pack: IEC/EN 62619; UN38.3; Cell:IEC/EN 62619; UN38.3; UL1973

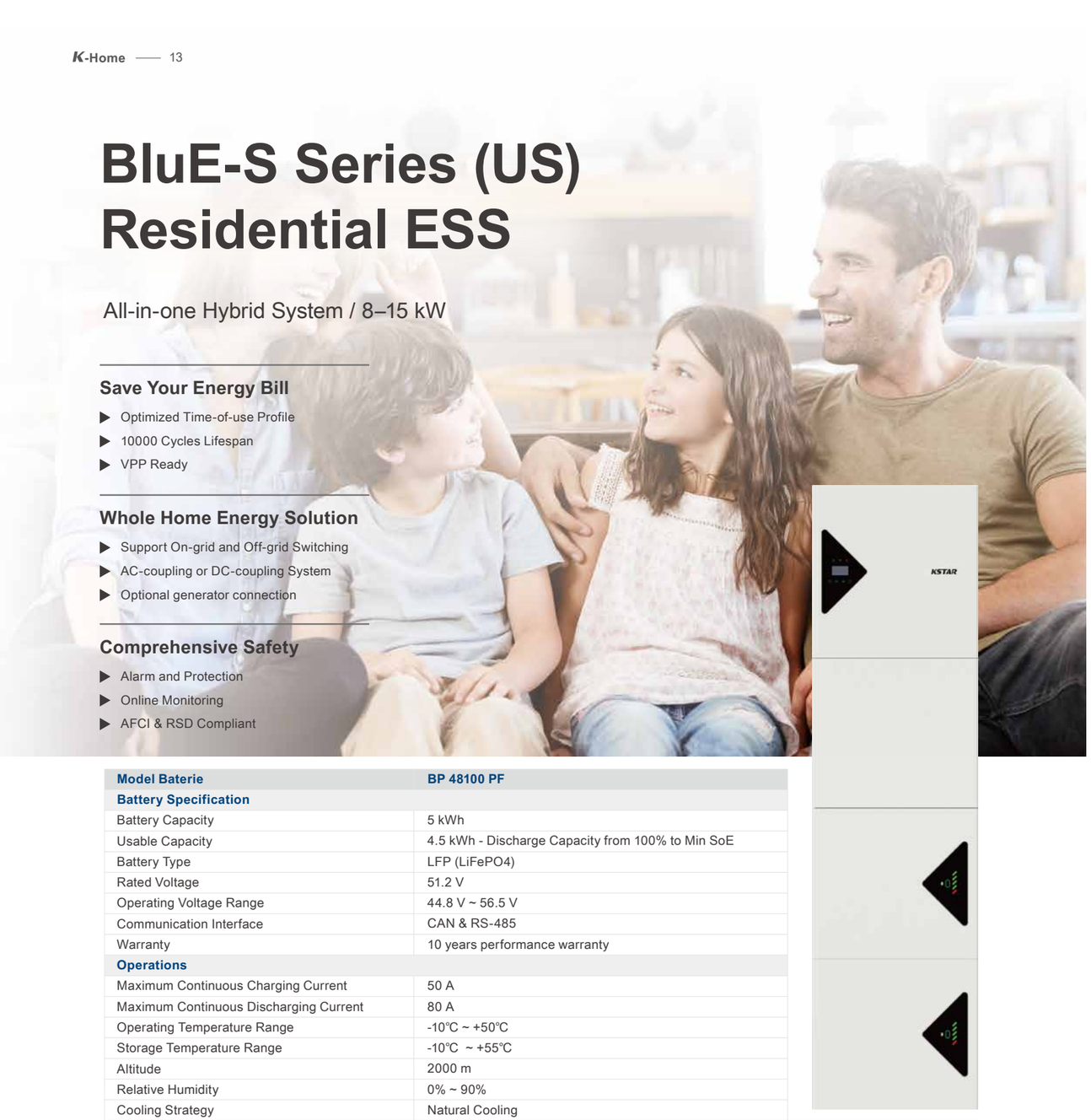
Max. Continuous Charging Current	50 A (single battery pack)
Max. Continuous Charging Power	2825 W
Max. Continuous Disharging Current	80 A (single battery pack)
Max. Continuous Disharging Power	4096 W
Operating Temperature Range	-10 to 50℃ (Charging); -10 to 50℃ (Discharging) [4]
Cooling Type	Natural Cooling
Humidity	0 ~ 95% (no condensation)
BMS	
Modules Connection	Max. 8
Capacity	100 / 200 / 300 / 400 / 500 / 600 / 700 / 800 Ah
Communication	CAN
Monitoring Parameters	System voltage,current,battery voltage, Battery temperature,PCBA temperature measurement

1) Refer to two models of battery pack: BP48100PF1-G2 (EVE cell) and BP48100PF3-G2 (CATL cell).
2) Total Energy Capacity is tested under the following conditions: @25°C, 0.5C charging/0.5C discharging, at the beginning of life.
3) Usable Energy Capacity refers to the energy discharged from 100% to the minimum state of energy (SoE).
4) The operating temperature parameters only apply to battery pack models with heating function. For battery pack models without heating function, the operating temperature range will be: 0 to 50℃(Charging), -10 to 50℃ (Discharging).
5) Minimum voltage for inverter to start power output.
6) According to the C10/11 of Synergrid, the maximum AC apparent output power is 10 kVA .The applicable hybrid inverter model is E10KTBE-D22.

Hybrid Inverter Model	E8KT-D22	E10KT-D22	E12KT-D22
PV Input			
Recommended Max.PV Array Input Power @STC	16 kW	20 kW	22 kW
Max PV Voltage		1000 V	
Nominal Voltage		720 V	
MPPT Voltage Range		140 ~ 950 V	
MPPT Voltage Range with Full Load	290 ~ 800 V	320 ~ 800 V	350 ~ 800 V
Start Voltage [5]		200 V	
Number of MPPT Tracker		2	
String per MPPT Tracker		1	
Max. Input Current per MPPT		20 A	
Max. Short-Circuit Current per MPPT		25 A	
AC Output & Input (Grid)			
Max. AC Continuous Output Power	8000 W	10000 W	12000 W
Max. AC Apparent Output Power	8800 VA	11000 VA [6]	13200 VA
Max. Continuous Input Power	16000 W	20000 W	22000 W
Nominal AC Voltage		400 Vac	
Norminal Frequency		50 Hz / 60 Hz (±5 Hz)	
Norminal Output Current	11.6 A	14.5 A	17.4 A
Max. Output Current	26.1 A	26.1 A	26.1 A
Max. Input Current		35 A	
Power Factor (cosΦ)		-0.8 (Lagging) ~ 0.8 (Leading)	
THDi		< 3%	
AC Output (Backup)			
Norminal AC Output Power	8000 W	10000 W	12000 W
Max. AC Output Power	8000 VA	10000 VA	12000 VA
Norminal Output Current	11.6 A	14.5 A	17.4 A
Max. Output Current	26.1 A	26.1 A	26.1 A
Norminal Output Voltage		400 Vac	
Nominal Output Frequency		50 Hz / 60 Hz	
Output THDv (@Linear Load)		2% (Linear Load)	
Battery Input			
Battery Type		LFP (LiFePO4)	
Nominal Battery Voltage		51.2 V	
Charging Voltage Range		44 ~ 58 V	
Max. Charging / Discharging Current	160 A / 200 A	200 A / 240 A	200 A / 240 A
Rated Charging / Discharging Power	8000 W	10000 W	10000 W / 12000 W
Battery Capacity		100 ~ 800 Ah	
Efficiency			
Max. PV Efficiency		97.2 %	
Euro. Efficiency		95.5 %	
Protection			
DC Switch		Integrated	
Anti-Islanding-Protection		Integrated	
Residual Current Monitoring		Integrated	
PV Reverse Polarity Protection		Integrated	
AC Short Circuit Protection		Integrated	
AC Overvoltage Protection		Integrated	
DC / AC Surge Protection		DC Type II; AC Type III	
Remote Shutdown		Integrated	
AFCI		Optional	
General Specification			
Dimensions (W x H x D)		725 × 490 × 245 mm	
Weight		43 kg	
Operating Temperature Range		-25°C to + 60°C (> 40°C derating)	
Cooling Type		Intelligent Air Cooling	
Max. Operation Altitude		≤ 4000 m	
Operation Humidity		0 ~ 95% (No Convection)	
IP Class		IP66	
Topology		High Frequency Isolation	
Communication		RS485 / WIFI / (4G / Ethernet optional)	
Display		LED+Bluetooth / APP / WEB	
Certification & Standard		IEC/EN62109-1&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 61727; IEC 62116; IEC 60068; IEC 61683; EN 50549-1; EN 50549-10; VDE-AR-N 4105; NC RfG:2018; C10/C11	

BluE-S Series (US) Residential ESS

All-in-one Hybrid System / 8–15 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
- AFCI & RSD Compliant

Model Baterie	BP 48100 PF	
Battery Specification		
Battery Capacity	5 kWh	
Usable Capacity	4.5 kWh - Discharge Capacity from 100% to Min SoE	
Battery Type	LFP (LiFePO4)	
Rated Voltage	51.2 V	
Operating Voltage Range	44.8 V ~ 56.5 V	
Communication Interface	CAN & RS-485	
Warranty	10 years performance warranty	
Operations		
Maximum Continuous Charging Current	50 A	
Maximum Continuous Discharging Current	80 A	
Operating Temperature Range	-10℃ ~ +50℃	
Storage Temperature Range	-10℃ ~ +55℃	
Altitude	2000 m	
Relative Humidity	0% ~ 90%	
Cooling Strategy	Natural Cooling	
BMS		
Capacity	200 / 400 / 600 / 800 Ah	
Monitored Item	Current; Cell Voltage; Battery Voltage Accuracy; Ambient Temperature;	
LED User Interface	LED Indication for Battery Status (On, Operational, Standby, Fault , Capacity of SOC)	
Physical		
Weight	56.5 Kg	
Dimensions (W x H x D)	540 × 490 × 240 mm	
Certificate		
Safety	Cell	UL 9540 A
	Battery Pack	FCC Part 15 Class B UL 9540 A; UL 1973 (UL1973)
Certificate	FCC Part 15 Class B; UL 1973; Class 9; UN38.3, IP66 / NEMA 3R	

*Note: 1. Conformity to UL 1741 (Third Edition, September 28, 2021) includes compliance with applicable requirements of UL 1741SB (Supplement SB), IEEE Std 1547TM-2018, 1EEE Std 1547.1TM-2020 and the SRDs of Hawaiian Electric Co. (HECO) SRD-V2.0. The interoperability is verified with IEEE 2030.5-2018 communication protocol.
2. The products have been verified with PVRss function according to NEC-2020 (NFPA 70) Article 690.12 and CEC-2021(CSA C22.1:21)Sec 64-218.
3. The functional safety has been evaluated according to applicable requirement of UL 1998 (Edition 3) and UL 991 (Edition 3) as required by the end products standard.

Hybrid Inverter Model	E8KD	E10KD	E12KD	E15KD
PV Input				
Recommended Max. PV Array Input Power @STC	16 kWp	18 kWp	22 kWp	25 kWp
Max. PV Input Voltage	500 Vdc			
MPPT Voltage Range	120 ~ 425 Vdc			
Start Voltage	120 V			
Nominal Voltage	380 Vdc			
MPPT Voltage Range With Full Load	200 ~ 425 V	240 ~ 425 V	200 ~ 425 V	240 ~ 425 V
Number of MPPT Tracker	2	2	3	3
Max. Input Current	30 A*2	30 A*2	30 A*3	30 A*3
Max. Short-circuit Current	40 A*2	40 A*2	40 A*3	40 A*3
AC Output (On Grid)				
Nominal (L-L) Output Voltage	240 V / 208 V			
Output Voltage Range	160 V ~ 300 Vac (L~L)			
Output Frequency	50 Hz / 60 Hz (±5 Hz), (Adjustable)			
Nominal Output Current	33.4 A	41.7 A	50 A	62.5 A
Max. Output Power	8 kVA	10 kVA	12 kVA	15 kVA
Nominal Output Power	8 kW	10 kW	12 kW	15 kW
Output Connection	Split phase, 2/3 phase, single phase, transformerless			
Power Factor (cosΦ)	-0.8 (Lagging) ~ 0.8 (Leading) (Adjustable)			
THDi	< 3%			
AC Output (Backup Grid -Tied)				
Rated Output Current	150 Aa.c.			
Max. Output Current	200 Aa.c.			
Rated Continuous Output Power	36,000 W			
Max. Output Power	48,000 W			
Backup Load Overcurrent Protection	200 Aa.c.			
AC Output (Backup Off-Grid)				
Nominal (L-L) Output Voltage	240 V / 208 V			
Nominal Output Frequency	50 Hz / 60 Hz (±0.2%)			
Nominal Output Current	33.4 A	41.7 A	50 A	50 A
Nominal Output Power (Daytime)	8 kW	10 kW	12 kW	12 kW
Max. Output Power (Daytime)	8 kVA	10 kVA	12 kVA	12 kVA
Nominal Output Power (Nighttime)	8 kW	10 kW	11.4 kW	11.4 kW
Max. Output Power (Nighttime)	8 kVA	10 kVA	12 kVA	12 kVA
THDv	< 2% (Linear load)			
On / Off Gird Switching Time	< 20 ms			
Over Current Protection	200 A / pole			
Battery Input				
Battery Type	Lithium battery			
Battery Nominal Voltage	51.2 V			
Battery Voltage Range	44 ~ 57 V			
Depth of Discharge	90% DOD (10% ~ 90% Adjustable)			
Max. Discharging Current	200 A	200 A	240 A	240 A
Max. Charging Current	160 A (Adjustable)	160 A (Adjustable)	160 A (Adjustable)	160 A (Adjustable)
Max. Discharging Power	8 kW	10 kW	12 kW	12 kW
Max. Charging Power	8 kW	8 kW	10 kW	10 kW
Battery Switch	Single - pole DC switch (2*200 A / Pole)			
Capacity	200 / 400 / 600 / 800 Ah			
Efficiency				
CEC Efficiency	97% (@240 V) / 96% (@208 V)			
MPPT Efficiency	> 99.9%			
General Specifications				
Cooling Type	Intelligent air cooling			
Communication Port	RS-485 / CAN 2.0 / WIFI			
Protection Class	Class II			
Operating Temperature Range	-20℃ ~ +55℃ (Rated power@40℃)			
Storage Humidity Range	0 ~ 95% (No Condensation)			
Operating Altitude	2000 m			
Overvoltage Type	II (DC side) ; IV (AC side)			
IP Class	IP66 / 4X			
Weight	73 kg			
Dimensions (W x H x D)	540 x 1050 x 240 mm			
Protection & Certifications				
Certifications	Electronics Certified Safety by CSA Labs to NEC & UL Specs - NEC 690.4B & NEC 705.4/6; CSA C22.2 No.107.1-16; Grid Sell Back — UL 1741 - 2010/2018 ; IEEE 1547a - 2003/2014 ; FCC 15 Class B ; UL 1741; UL1741 CRD; UL 1741SB ; CA Rule21 ; HECO Rule 14 H; UL 1699B; CSA C22.2 No.292-18; CSA C22.2 No.330-17;			
Protection	PV DC Disconnect Switch — NEC 240.15 Ground Fault Detection — NEC 690.5 PV Rapid Shutdown Control — NEC 690.12 PV Arc Fault Detection — NEC 690.11		PV Input Lightning Protection PV String Input Reverse Polarity Protection AC Output Breakers Battery Breaker / Disconnect Surge Protection	

BlueGlow Series NEW

Single Phase / On-grid / 3–6 kW

Max. PV Voltage up to 550 V
Support High-current Bificial Modules

Reactive Power Control
WiFi / 4G Plug Optional

DC / AC Ratio up to 1.5
AFCI Optional

High Efficiency up to 98.1%
Smaller and Lighter

MODEL	G3KS-D11	G5KS-D11	G5KS-B21	G6KS-D11	G6KS-B21
Specifications					
Max. DC Power	4.5 kWp	7.5 kWp	7.5 kWp	9.0 kWp	9.0 kWp
Max. DC Voltage	550 V				
Nominal Voltage	360 V				
Start Voltage	80 V				
MPPT Voltage Range	60 ~ 550 V				
MPPT Voltage Range at Full Load	165 ~ 500 V	265 ~ 500 V	180 ~ 500 V	330 ~ 500 V	200 ~ 500 V
No. of MPPT	1	1	2	1	2
No. of Strings per MPPT	1	1	1	1	1
Number of Strings Input	1	1	2	1	2
Max. Input Current per MPPT	20 A	20 A	16 A*2	20 A	16 A*2
Max. Short-circuit Current per MPPT	30 A	30 A	25 A*2	30 A	25 A*2
Output (AC)					
Nominal AC Output Power	3000 W	5000 W	5000 W	6000 W	6000 W
Max. AC Apparent Power	3300 VA	5500 VA	5500 VA	6000 VA	6000 VA
Max. AC Output Power	3300 W	5500 W	5500 W	6000 W	6000 W
Nominal AC Voltage	220 V / 230 V				
AC Grid Frequency Range	50 Hz / 60 Hz (±5 Hz)				
Rated Output Current	13.7 A / 13.1 A	22.7 A / 21.7 A	22.7 A / 21.7 A	27.3 / 26 A	27.3 A / 26 A
Maximum Output Current	15 A	25 A	25 A	27.3 A	27.3 A
Power Factor (Φ)	-0.8 (Lagging) ~ 0.8 (Leading)				
THDi	< 3% (Nominal Power)				
Efficiency					
Max. Efficiency	97.5%	98.1%	98.1%	98.1%	98.1%
Euro Efficiency	97.0%	97.5%	97.5%	97.5%	97.5%
Protection Devices					
DC Switch	Yes				
Anti~islanding Protection	Yes				
Output Over Current	Yes				
DC Reverse Polarity Protection	Yes				
String Fault Detection	Yes				
Overvoltage Category	DC Type III / Type II Optional; AC Type III				
Insulation Detection	Yes				
AC Short Circuit Protection	Yes				
AFCI Protection	Optional				
General Specifications					
Dimensions (W x H x D)	395 x 315 x 140 mm				
Weight	7.6 kg	8.2 kg	9.5 kg	8.2 kg	9.5 kg
Operating Temperature Range	–25℃ ~ +60℃				
Cooling Type	Natural				
Max. Operating Altitude	≤ 4000 m				
Max. Operating Humidity	0 ~ 100%				
DC Input Terminal Type	Vaconn				
AC Output Terminal Type	Quick connector				
IP Class	IP66				
Topology	Transformerless				
Communication	RS-485*2 / WIFI / GPRS / Bluetooth				
Display	LCD / Bluetooth + App				
Certificates	IEC 62109~1/2; IEC 61000; IEC 60068; IEC 61727; IEC 62116; IEC 61683				

BlueGlow Series NEW

Single Phase / On-grid / 8-12 kW

- Max. PV Voltage up to 600 V
  Type II DC / Type III AC SPD
- Reactive Power Control
  WiFi / 4G Plug Optional
- DC / AC Ratio up to 1.5
  AFCI Optional
- High Efficiency up to 97.5%
  Smaller and Lighter

MODEL	G8K1	G10K1	G12K1
Specifications			
Max. DC Power	12 kWp	15 kWp	18 kWp
Max. DC Voltage		600 V	
Nominal Voltage		360 V	
Start Voltage		80 V	
MPPT Voltage Range		60 ~ 550 V	
MPPT Voltage Range at Full Load	220 ~ 500 V	270 ~ 500 V	330 ~ 500 V
No. of MPPT		2	
No. of Strings per MPPT		1	
Number of Strings Input		2	
Max. Input Current per MPPT		20 A*2	
Max. Short-circuit Current per MPPT		30 A*2	
Output (AC)			
Nominal AC Output Power	8000 W	10000 W	12000 W
Max. AC Apparent Power	8000 VA	10000 VA	12000 VA
Max. AC Output Power	8000 W	10000 W	12000 W
Nominal AC Voltage		220 V / 230 V	
AC Grid Frequency Range		50 Hz / 60 Hz (±5 Hz)	
Rated Output Current	36.4 A / 34.8 A	45.5 A / 43.5 A	54.5 A / 52.2 A
Maximum Output Current	36.4 A	45.5 A	54.5 A
Power Factor (Φ)		-0.8 (Lagging) ~ 0.8 (Leading)	
THDi		< 3% (Nominal Power)	
Efficiency			
Max. Efficiency		98.1%	
Euro Efficiency		97.5%	
Protection Devices			
DC Switch		Yes	
Anti-islanding Protection		Yes	
Output Over Current		Yes	
DC Reverse Polarity Protection		Yes	
String Fault Detection		Yes	
Overvoltage Category		DC Type III / Type II Optional; AC Type III	
Insulation Detection		Yes	
AC Short Circuit Protection		Yes	
AFCI Protection		Optional	
General Specifications			
Dimensions (W x H x D)	380 x 483 x 161 mm	380 x 483 x 161 mm	380 x 483 x 193 mm
Weight	14 kg	14.5 kg	17.5 kg
Operating Temperature Range		–25℃ ~ +60℃	
Cooling Type		Natural	
Max. Operating Altitude		≤ 4000 m	
Max. Operating Humidity		0 ~ 100%	
DC Input Terminal Type		Vaconn	
IP Class		IP66	
Topology		Transformerless	
Communication		RS-485 / WIFI / GPRS / Bluetooth	
Display		LCD / Bluetooth + App	
Certificates		IEC 62109-1/2; IEC 61000; IEC 60068; IEC 61727; IEC 62116; IEC 61683	

BluE-G Series

Single Phase / On-grid / 1–3 kW

- Max. PV Voltage up to 600 V
  DC / AC Ratio up to 1.5
- Compatible for Big Capacity PV Panel
  WiFi / 4G Plug Optional
- Type III DC SPD / Type III AC SPD
  IP66 Protection
- High Efficiency up to 97.6%
  Smaller and Lighter

MODEL	BluE-G 1000S-M1	BluE-G 1500S-M1	BluE-G 2000S-M1	BluE-G 3000S-G2-M1
Input (DC)				
Max. DC Voltage	600 Vdc			
Nominal Voltage	380 Vdc			
Start Voltage [1]	60 V	80 V	80 V	80 V
MPPT Voltage Range	60 ~ 560 V	80 ~ 560 V	80 ~ 560 V	80 ~ 560 V
Number of MPPT	1			
Strings per MPPT	1			
Max. input Current per MPPT	13 A			
Max. Short-circuit Current per MPPT	15.6 A			
Output (AC)				
Nominal AC Output Power	1000 W	1500 W	2000 W	3000 W
Max. AC Apparent Power	1100 VA	1650 VA	2200 VA	3300 VA
Nominal AC Voltage	230 V L-N			
AC Grid Frequency Range	50 Hz / 60 Hz (±5 Hz)			
Max. Output Current (A)	4.8 A	7.2 A	9.6 A	14.4 A
Power Factor (cosΦ)	-0.8 (Lagging) ~ 0.8 (Leading)			
THDi	< 3%			
Efficiency				
Max. Efficiency	97.00%	97.50%	97.50%	97.60%
Euro Efficiency	96.50%	97.00%	97.00%	97.00%
Protection devices				
DC Switch	Yes			
Anti-islanding Protection	Yes			
Output Over Current Protection	Yes			
DC Reverse Polarity Protection	Yes			
DC / AC Surge Protection	DC Typ III; AC Typ III			
Insulation Detection	Yes			
AC Short Circuit Protection	Yes			
General Specifications				
Dimensions (W x H x D)	350 × 290 × 120 mm			
Weight	7.3 kg	8 kg	8 kg	8 kg
Environment				
Operating Temperature Range	–25℃ ~ +60℃			
Cooling Type	Natural convection			
Max. Operating Altitude	4000 m			
Max. Operating Humidity	0 ~ 100%			
AC Output Terminal Type	Quick Connector			
IP Class	IP66			
Topology	Transformerless			
Communication Interface	RS-485 / WIFI / 4G			
Display	LCD / Bluetooth + App			
Certification & Standard	EN/IEC 62109-1/2; IEC/EN 61000-6-2; IEC/EN 61000-6-4; IEC 62116; IEC 61727; EN 50549-1			

1) Minimum voltage for inverter to start power output.

BluE-G Series

Single Phase / On-grid / 3–8 kW

Max. PV Voltage up to 600 V
DC / AC Ratio up to 1.5

Compatible for Big Capacity PV Panel
WiFi / 4G Plug Optional

Type III DC SPD / Type III AC SPD
IP65 Protection

High Efficiency up to 98.3%
Smaller and Lighter

MODEL	BluE-G 3600D-M1	BluE-G 4000D-M1	BluE-G 5000D-M1	BluE-G 6000D-M1	BluE-G 8000D
Input (DC)					
Max. DC Voltage	600 V				
Nominal Voltage	380 V				
Start Voltage [7]	120 V	120 V	120 V	120 V	100 V
MPPT Voltage Range	80 ~ 560 V	80 ~ 560 V	80 ~ 560 V	80 ~ 560 V	80 ~ 540 V
Number of MPPT	2				
Strings per MPPT	1				
Max. Input Current per MPPT	15 A	15 A	15 A	15 A	26 A / 16 A [1]
Max. Short-circuit Current per MPPT	18 A	18 A	18 A	18 A	31 A / 19 A
Output (AC)					
Nominal AC Output Power	3600 W	4000 W	5000 W [2]	6000 W	8000 W
Max. AC Apparent Power	3960 VA [3]	4400 VA	5500 VA [4]	6000 VA	8000 VA
Nominal AC Voltage	230 V L-N				
AC Grid Frequency Range	50 Hz / 60 Hz (±5 Hz)				
Max. Output Current	17 A [5]	19 A	24 A [6]	26 A	35 A
THDi	-0.8 (Lagging) ~ 0.8 (Leading)				
Power Factor (cosΦ)	< 3%				
Efficiency					
Max. Efficiency	98.1%	98.3%	98.3%	98.3%	98.3%
Euro Efficiency	97.7%	97.9%	97.9%	97.9%	97.9%
Protection devices					
DC Switch	Yes				
Anti-islanding Protection	Yes				
Output Over Current Protection	Yes				
DC Reverse Polarity Protection	Yes				
DC / AC Surge Protection	DC Typ III; AC Typ III				
Insulation Detection	Yes				
AC Short Circuit Protection	Yes				
General Specifications					
Dimensions (W x H x D)	380 × 380 × 150 mm				
Weight	10 kg	11 kg	11 kg	11 kg	13 kg
Operating Temperature Range	–25℃ ~ +60℃				
Cooling Type	Natural convection	Natural convection	Natural convection	Natural convection	Fan cooling
Max. Operating Altitude	≤ 4000 m				
Max. Operating Humidity	0 ~ 100%				
AC Output Terminal Type	Quick Connector				
IP Class	IP65				
Topology	Transformerless				
Communication	RS-485 / WIFI / 4G				
Display	LCD / Bluetooth + App				
Certification & Standard	EN/IEC 62109-1/2 ; IEC/EN 61000-6-2; IEC/EN 61000-6-4; IEC 61683; IEC 60068; IEC 60529; IEC 62116; IEC 61727; EN 50549-1; AS 4777.2; NRS 097; VDE-AR-N-4105; VDE 0126-1-1; CEI 0-21; G98/G99; C10/11; UNE 217001; UNE 217002; NB/T 32004-2018 ; GB/T 19964-2012;				

1）The maximum current of PV1 is 26 A , So PV1 can be expanded into two Strings by using Y-connectors.
2）Nominal AC output power is 4999 W for Australia and 4600 W for Germany and South Africa.
3）Max. AC apparent power is 3680 VA for the UK.
4）Max. AC apparent power is 4999 VA for Australia, 5000 VA for Belgium and 4600 VA for Germany and South Africa.
5）Maximum output current is 16 A for England.
6）Maximum output current is 21.7 A for Australia and 20 A for Germany and South Africa.
7）Minimum voltage for inverter to start power output.

BlueGlow Series NEW

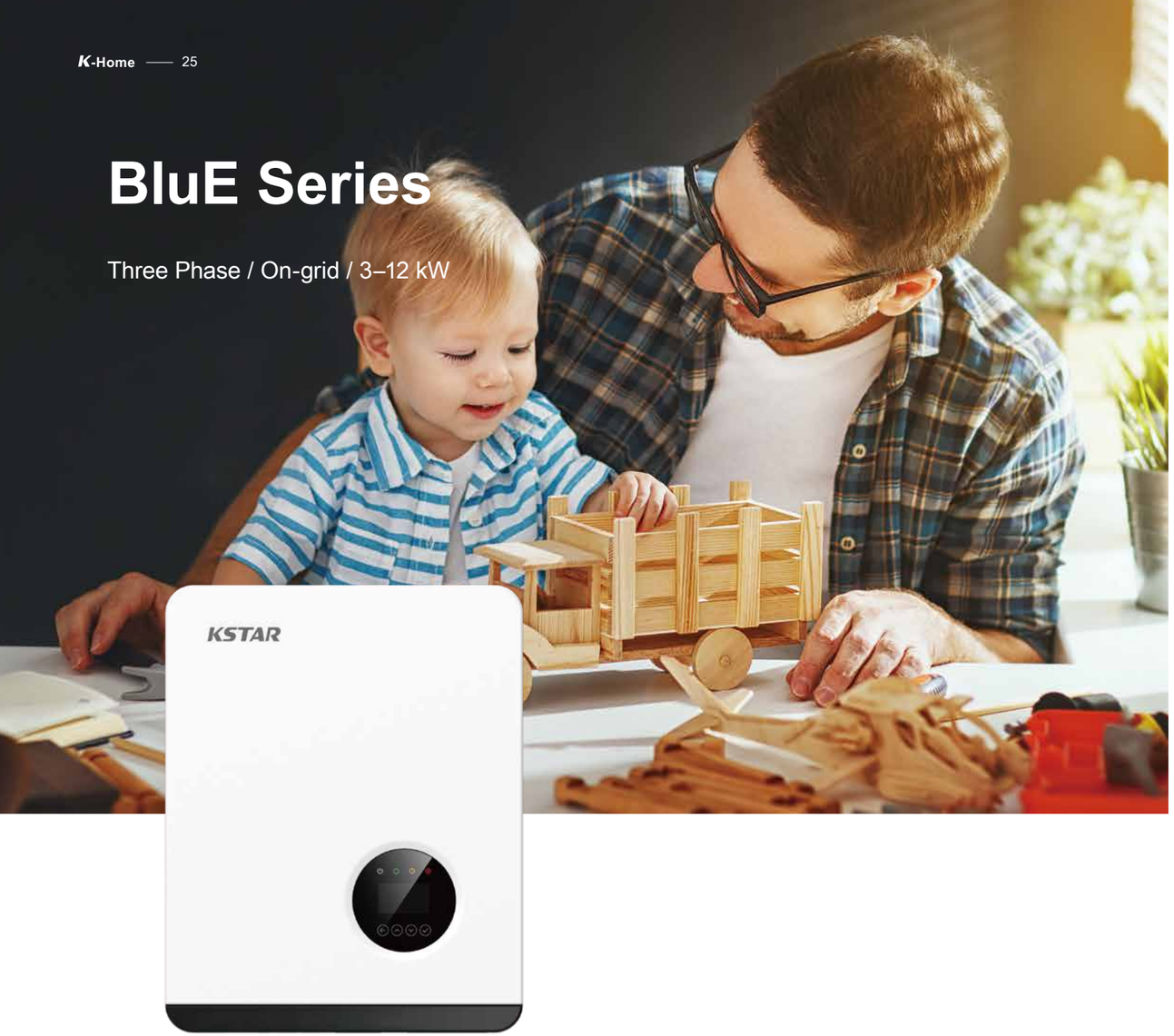
Three Phase / On-grid / 10–25 kW

- Max. PV Voltage up to 1100 V
  Type II DC / AC SPD
- Compatible for Big Capacity PV Panel
  WiFi / 4G Plug Optional
- DC / AC Ratio up to 1.3
  IP66 Protection
- High Efficiency up to 98.6%
  Smaller and Lighter

MODEL	BluE-10KT-M6	BluE-12KT-M6	BluE-15KT-M6	BluE-20KT-M6	BluE-25KT-M6
Input (DC)					
Recommended Max. PV Array Input Power @STC	13 kW	15.6 kW	19.5 kW	26 kW	32.5 kW
Max. DC Voltage	1100 V				
Nominal Voltage	650 V				
Start Voltage	250 V				
MPPT Voltage Range	140 ~ 1000 V	140 ~ 1000 V	140 ~ 1000 V	140 ~ 1000 V	200 ~ 1000 V
MPPT Voltage Range (Full load)	420 ~ 850 V	420 ~ 850 V	420 ~ 850 V	480 ~ 850 V	480 ~ 850 V
Number of MPPT	2				
Max.Number of String per MPPT	1	1	1	2	2
Max. Input Current per MPPT	20 A	20 A	20 A	32 A	40 A / 32 A
Max. Short-circuit Current per MPPT	30 A	30 A	30 A	50 A	60 A / 50 A
Output (AC)					
Nominal AC Output Power	10000 W	12000 W	15000 W	20000 W	25000 W
Max. AC Output apparent Power	11000 VA	13200 VA	16500 VA	22000 VA	27500 VA
Max. AC Output active Power	11000 W	13200 W	16500 W	22000 W	27500 W
Nominal Voltage	400 V / 230 V, 3P+N+PE				
AC Grid Frequency Range	50 Hz / 60 Hz				
Max. Output Current	16 A	19.2 A	23.9 A	31.9 A	39.9 A
Power Factor (Φ)	-0.8 (Lagging) ~ 0.8 (Leading)				
THDi	< 3% (Nominal Power)				
Efficiency					
Max. Efficiency	98.3%	98.3%	98.3%	98.6%	98.6%
Euro Efficiency	98.0%	98.0%	98.0%	98.3%	98.3%
Protection devices					
DC Switch	Yes				
Output Over Current Protection	Yes				
Anti-islanding Protection	Yes				
DC Reverse Polarity Protection	Yes				
Insulation Detection	Yes				
DC / AC Surge Protection	DC Type II; AC Type III; Type II Optional				
Residual Current Monitoring	Yes				
AFCI	Optional				
General Specifications					
Dimensions (W x H x D)	380 x 483 x 161 mm	380 x 483 x 161 mm	380 x 483 x 193 mm	380 x 483 x 193 mm	380 x 483 x 223 mm
Weight	16 kg	16 kg	18.8 kg	18.8 kg	19.6 kg
Operating Temperature Range	–25℃ ~ +60℃				
Cooling Type	Natural cooling	Natural cooling	Natural cooling	Fan cooling	Fan cooling
Max. Operating Altitude	4000 m (> 3000 m derating)				
Max. Operating Humidity	0 ~ 100%				
AC Output Terminal Type	OT				
IP Class	IP66				
Topology	Transformerless				
PV Intput Terminal Type	MC4				
Display	LCD				
Certification & Standard	EN/IEC 62109~1; EN/IEC 62109~2; IEC/EN 61000~6~1; IEC/EN 61000~6~3; IEC/EN 61000~6~2; IEC/EN 61000~6 4; IEC 61683; IEC 60068; IEC 62116; IEC61727;				

BluE Series

Three Phase / On-grid / 3–12 kW



Max. PV Voltage up to 1100 V
Type II DC / AC SPD

Compatible for Big Capacity PV Panel
WiFi / 4G Plug Optional

DC / AC Ratio up to 1.3
IP66 Protection

High Efficiency up to 98.6%
Smaller and Lighter

MODEL	BluE-3KT-M1	BluE-4KT-M1	BluE-5KT-M1	BluE-6KT-M1	BluE-8KT-M1	BluE-10KT-M1	BluE-12KT-M1
Input (DC)							
Max. DC Voltage	1100 V						
Nominal Voltage	650 V						
Start Voltage [1]	250 V						
Number of MPPT	140 ~ 1000 V						
Strings per MPPT	2						
MPPT Voltage Range	1						
Max. Input Current per MPPT	15 A						
Max. Short-circuit Current per MPPT	20 A						
Output (AC)							
Nominal AC Output Power	3000 W	4000 W	5000 W	6000 W	8000 W	10000 W	12000 W
Maximum AC Output Power	3300 VA	4400 VA	5500 VA	6600 VA	8800 VA	11000 VA [2]	13200 VA
Nominal AC Voltage	400 V / 230 V, 3P+N+PE						
AC Grid Frequency Range	50 Hz / 60 Hz (±5 Hz)						
Maximum Output Current	4.8 A	6.4 A	8.0 A	9.6 A	12.8 A	16.0 A [2]	19.2 A
Power Factor (Φ)	-0.8 (Lagging) ~ 0.8 (Leading)						
THDi	< 3% (Nominal Power)						
Efficiency							
Max. Efficiency	98.4%	98.4%	98.4%	98.4%	98.6%	98.6%	98.6%
Euro Efficiency	97.5%	97.5%	97.5%	97.5%	98.0%	98.1%	98.1%
Protection devices							
DC Switch	Yes						
Output Over Current Protection	Yes						
Anti-islanding Protection	Yes						
DC Reverse Polarity Protection	Yes						
String Fault Detection	Yes						
DC / AC Surge Protection	DC Type II; AC Type III; Type II Optional						
Insulation Detection	Yes						
AC Short Circuit Protection	Yes						
General Specifications							
Dimensions (W x H x D)	380 × 483 × 161 mm						
Weight	< 17 kg						
Operating Temperature Range	–25℃ ~ +60℃						
Cooling Type	Natural cooling						
Max. Operating Altitude	4000 m						
Max. Operating Humidity	0 ~ 100% (No condensation)						
AC Output Terminal Type	Connector						
IP Class	IP66						
Topology	Transformerless						
Communication	RS-485 / WIFI / 4G						
Display	LCD						
Certification & Standard	EN/IEC 62109-1/2; IEC/EN 61000-6-2; IEC/EN6 1000-6-4; IEC 61683; IEC 60068; IEC 60529; IEC 62116; IEC 61727; EN 50549-1; VDE-AR-N-4105; VDE 0126-1-1; CEI 0-21; G98/G99 ; C10/11; NB/T 32004-2018; GB/T 19964-2012;						

1) Minimum voltage for inverter to start power output.
2) According to the C10/11 of Synergrid, the maximum AC output power is 10 kVA and therefore the maximum AC output current is 14.5A.

BluE Series

Three Phase / On-grid / 15–25 kW

- Max. PV Voltage up to 1100 V
  Type II DC / AC SPD
- Compatible for Big Capacity PV Panel
  WiFi / 4G Plug Optional
- DC / AC Ratio up to 1.3
  IP66 Protection
- High Efficiency up to 98.6%
  Smaller and Lighter

MODEL	BluE-15KT-M1	BluE-17KT-M1	BluE-20KT-M1	BluE-25KT-M1
Input (DC)				
Max. DC Voltage	1100 V			
Nominal Voltage	650 V			
Start Voltage	250 V			
MPPT Voltage Range	140 ~ 1000 V			
Number of MPPT Tracker	2			
Strings per MPPT Tracker	2 / 1	2	2	2
Max. input Current per MPPT	30 A / 15 A	30 A	30 A	30 A
Max. Short-circuit Current per MPPT	40 A / 20 A	40 A	40 A	40 A
Output (AC)				
Nominal AC Output Power	15000 W	17000 W	20000 W	25000 W
Max. AC Output Power	16500 VA	18700 VA	22000 VA	27500 VA
Nominal AC Voltage	400 V / 230 V, 3P+N+PE			
AC Grid Frequency Range	50 Hz / 60 Hz (±5 Hz)			
Max. Output Current	23.9 A	27.1 A	31.9 A	39.9 A
Power Factor (cosΦ)	-0.8 (Lagging) ~ 0.8 (Leading)			
THDi	3%			
Efficiency				
Max. Efficiency	98.6%			
Euro Efficiency	98.2%	98.3%	98.3%	98.3%
Protection Devices				
DC Switch	Yes			
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; Type II Optional			
Insulation Detection	Yes			
AC Short Circuit Protection	Yes			
General Specifications				
Dimensions (W x H x D)	380 × 483 × 193 mm			
Weight	20.7 kg			
Operating Temperature Range	–25℃ ~ +60℃			
Cooling Type	Fan Cooling			
Max. Operating Altitude	4000 m			
Max. Operating Humidity	0 ~ 100% (No condensation)			
AC Output Terminal Type	Connector			
IP Class	IP66			
Topology	Transformerless			
Communication Interface	RS-485 / WIFI / 4G			
Display	LCD			
Certification & Standard	EN/IEC 62109-1/2 ; IEC/EN 61000-6-2; IEC/EN 61000-6-4; IEC 61683; IEC 60068; IEC 60529; IEC 62116; IEC 61727; EN 50549-1; VDE-AR-N-4105; VDE 0126-1-1; CEI 0-21; G99; C10/11; NB/T 32004-2018 ; GB/T 19964-2012			

BluE Series (LV)

Three Phase / On-grid / 12–20 kW

Max. PV voltage up to 800 V
Type II DC / AC SPD

Reactive power control
WiFi / 4G Plug optional

DC / AC ratio up to 2
IP66 protection

High efficiency up to 98.6%
Smaller and lighter

MODEL	BluE-12KTL-M1	BluE-15KTL-M1	BluE-20KTL-M2
Input (DC)			
Max. DC Voltage	800 V		
Nominal Voltage	370 V		
Start Voltage	250 V		
MPPT Voltage Range	200 ~ 750 V		
Number of MPPT Tracker	2		
Strings per MPPT Tracker	2		
Max. input Current per MPPT	30 A		
Max. Short-circuit Current per MPPT	40 A		
Output (AC)			
Nominal AC Output Power	12000 W	15000 W	20000 W
Max. AC Output Power	13200 VA	16500 VA	22000 VA
Nominal AC Voltage	220 V 3L+N		
AC Grid Frequency Range	50 Hz / 60 Hz (±5 Hz)		
Max. Output Current	34.6 A	43.3 A	57.7 A
Power Factor (cosΦ)	-0.8 (Lagging) ~ 0.8 (Leading)		
THDi	3%		
Efficiency			
Max. Efficiency	98.6%		
Euro Efficiency	98.3%		
Protection Devices			
DC Switch	Yes		
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 / Type II Optional		
Insulation Detection	Yes		
AC Short Circuit Protection	Yes		
General Specifications			
Dimensions (W x H x D)	380 x 483 x 193 mm	380 x 483 x 223 mm	380 x 483 x 227 mm
Weight	20.7 kg	25.5 kg	32.5 kg
Operating Temperature Range	–25℃ ~ +60℃		
Cooling Type	Fan Cooling		
Max. Operating Altitude	4000 m		
Max. Operating Humidity	0 ~ 100% (No Condensation)		
AC Output Terminal Type	Connector		
IP Class	IP66		
Topology	Transformerless		
Communication Interface	RS-485 / WIFI / 4G		
Display	LCD		
Certification & Standard	EN/IEC62109-1/2 ; IEC/EN61000-6-2; IEC/EN61000-6-4; IEC61683; IEC60068; IEC60529; IEC62116; IEC61727;		

GreenFlow AC Charger（Coming Soon）

Single Phase / Wall-mounted / 7 kW

User-friendly Experience

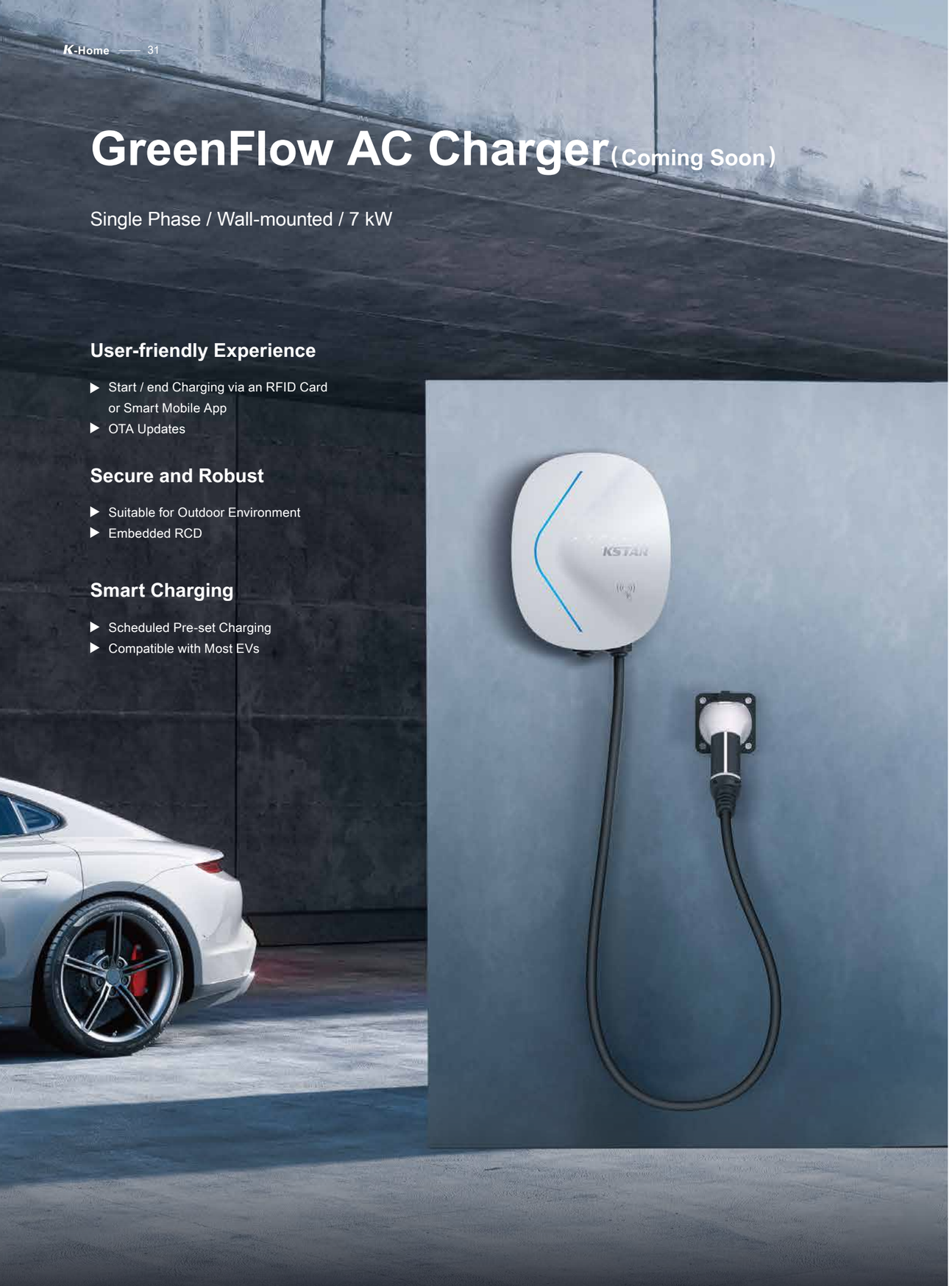
- Start / end Charging via an RFID Card or Smart Mobile App
- OTA Updates

Secure and Robust

- Suitable for Outdoor Environment
- Embedded RCD

Smart Charging

- Scheduled Pre-set Charging
- Compatible with Most EVs



MODEL	CAS7
Product Information	
Input Wiring	1P+N+PE
Rated Power	7 kW
Rated Input Voltage	230 V AC ±15%
Rated Current	32 A
Charging Mode	Mode 3
Network Type	TT, TN
Connector Type	IEC 62196 Type 2 Plug, 5 m
Protection	Over-voltage protection, under-voltage protection, short circuit protection,grounding protection, over temperature protection, lightning protection
Dimensions (W x H x D)	216 x 268 x 105 mm
Frequency	50 ~ 60 Hz
RCD	6 mA DC + 30 mA Type A
Metering	On-Board Measurement
Card Reader	Mifare ISO / IEC14443 Type A
General Characteristics	
Activation Method	Plug n' Charge & RFID Card & App
App Function	Remote start & stop, Scheduled Charging, Real-time Monitoring, Data Display, Power Adjusting
Opeating Altitude	< 2000 m
Operating Temperature	-30°C ~ +50°C
Storage Temperature	-40°C ~ +50°C
Operating Humidity	5% ~ 95%
Communication	WIFI + Bluetooth
LED	RGB LED
IP Rating	IP65
IK Rating	IK10
Certification	CE
EMC	Class B
IEC Standard	EN IEC 61851-1:2019 IEC61851-1:2017 IEC61851-21-2:2021
Warranty	2 Years

Stick Logger

LSW-5 / LSE-4W / LS4G-4

The stick logger enables long-term, effective monitoring of the solar and energy system by collecting the inverter's operating and power generation data. The cloud platform offers strong data support, while the collected data is sent to the monitoring platform via different interfaces, such as WiFi, Ethernet, 4G and more. Real-time and historical system data is displayed in clear, intuitive charts, allowing users to monitor the system anytime, anywhere.

Remote Control **Remote Upgrade** **Plug and Play** **7/24 Monitoring**

MODEL	LSW-5	LSE-4W	LS4G-4
Wireless Parameters			
Remote Way	WiFi	Ethernet / WIFI	4G
Number of connect inverters	1		
Data Transmission Interval	Default: 5 mins (1 ~ 15 mins Optional)		
External Interface	N / A	RJ45	Micro SIM card slot
Hardware Parameters			
Working Voltage	DC 5 V ~ DC 12 V		
Working Power	1.5 W	1.5 W	3.5 W
Indicator Light	One connected to inverter One connected to router One heartbeat indicator light		
Data Storage	Default: 8 MByte Flash	Default: 4 MByte Flash	Default: 8 MByte Flash
Working Temperature	-30°C ~ +70°C		
Working Humidity	Relative humidity: 10% ~ 90%, No Condensation		
Storage Temperature	-45°C ~ +90°C		
Storage Humidity	< 40%		
IP Grade	IP65		
Software AT+Instruction set Parameters			
Serial Communication Rate	Default: 9600 bps (1200 ~ 115200 bps Optional)		
Configuration	AT+Instruction Set Localweb Configuration Remote Server Bluetooth		
Firmware Upgrade	Local Web Upgrade; Remote Update		
Working Mode	AP+STA		
Others	Real-time Control, Data Resuming		

* It is recommended to use Stick logger (WiFi) for residential systems. And Stick Logger (Ethernet / 4G) is optional.
* The 4G datalogger just can be used in Europe. Please contact KSTAR team for specific available countries.

SDM630MCT40mA Smart Meter

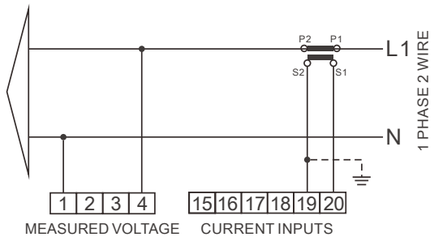
DIN Rail Energy Meter for Single and Three Phase Electrical Systems

- Measures kWh kVArh, kW, kVAr, kVA, P, F, PF, Hz, dmd, V, A, THD,etc.
- Bi-directional measurement IMP & EXP
- Two pulse outputs
- RS-485 Modbus
- Din rail mounting 35mm
- 40 mA CT connection
- Better than Class 1 / B accuracy

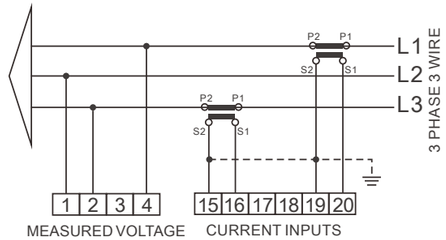
MODEL	SDM630MCT40mA
Measurement Accuracy	
Type of Measurement	RMS including harmonics on three phase AC system (3P,3P+N)
Power	0.5% of range maximum
Active Energy	IEC 62053 - 22 Class 0.5S, IEC 62053 - 21 Class 1.0
Reactive Energy	IEC 62053-23 Class 2
Frequency	0.2% of mid-frequency
Current	0.5% of range maximum
Voltage	0.5% of range maximum
Power Factor	1% of unity (0.01)
Input	
CT Secondary / Primary	40 mA / 120 A
Rated Voltage (Un)	380 / 400 V a.c.
Operating Voltage Range	173 to 480 V a.c. (L-L)
Communications	
Communication Protocol	Modbus RTU
Communication Address	1 ~ 247
Transmission Distance	1000 m Maximum
Transmission Speed	1200 bps ~ 38400 bps
Parity	None (default), Odd, Even
Stop Bits	1
Response Time	< 100 ms

* SDM630MCT40mA smart meter is recommended to be used along with residential string inverters and ESS hybrid inverters.
** It has included three 120A/40mA Current Transformers. For system larger than 80 kW, users need to purchase larger capacity CT that meets the following requirements:
1. The selected CT's primary rating should be larger than the maximum current passing through the system's AC busbar.
2. Maximum Current = system capacity / 230 / 3
*** Please consult Kstar for more details.

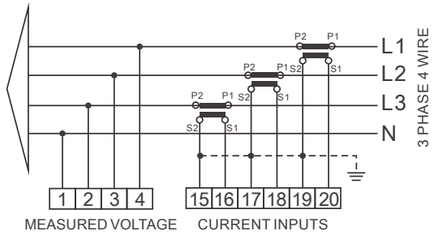
1P2W 1CT



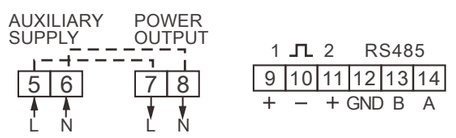
3P3W 2CT



3P4W 3CT



Other terminals



One click away from 24/7 technical support

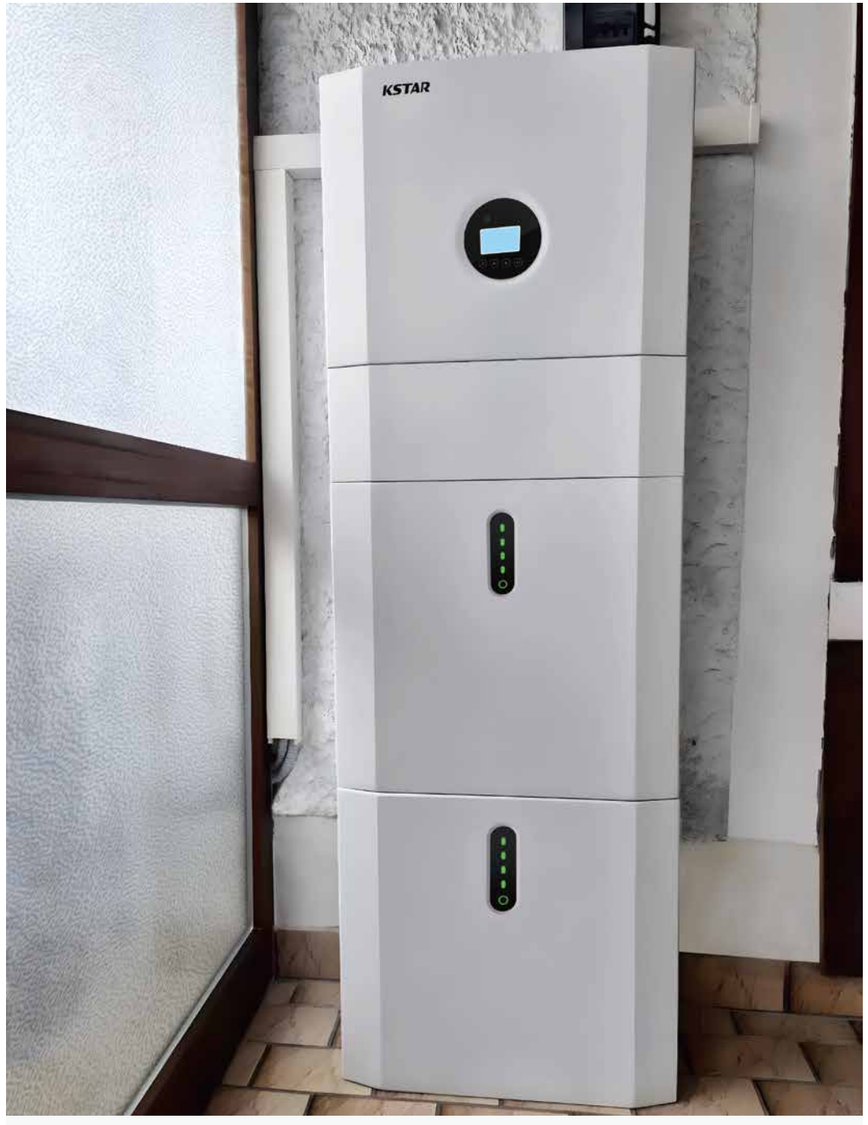
- Remote Energy Monitoring and Analytics
- Fault Detection and Maintenance
- Grid Interaction and Net Metering
- Enhanced System Lifespan
- Integration with Smart Home Systems
- Comprehensive Data Visualization
- Detailed Configuration Settings
- Collaborative Monitoring
- Extended Historical Data Analysis

KSTAR SPIRIT

At KSTAR, we understand that technical service is the cornerstone of a reliable and efficient solar solution. Our commitment to unparalleled technical support ensures that your solar investment operates at peak performance throughout its lifecycle.

Illuminate Tomorrow: Technical Support Today, Tomorrow, Always.

01 Residential ESS Project
in Italy



02 Residential ESS Project
in Italy

03 Residential ESS Project
in Bulgaria

06 Residential ESS Project
in the Netherlands

04 Residential Solar Project
in Brazil

05 Residential ESS Project
in Italy

07 Residential Solar Project
in Brazil

08 Residential ESS Project
in Europe

09 Residential ESS Project
in Europe

10 Residential Solar Project
in Brazil

11 Residential ESS Project
in Belgium