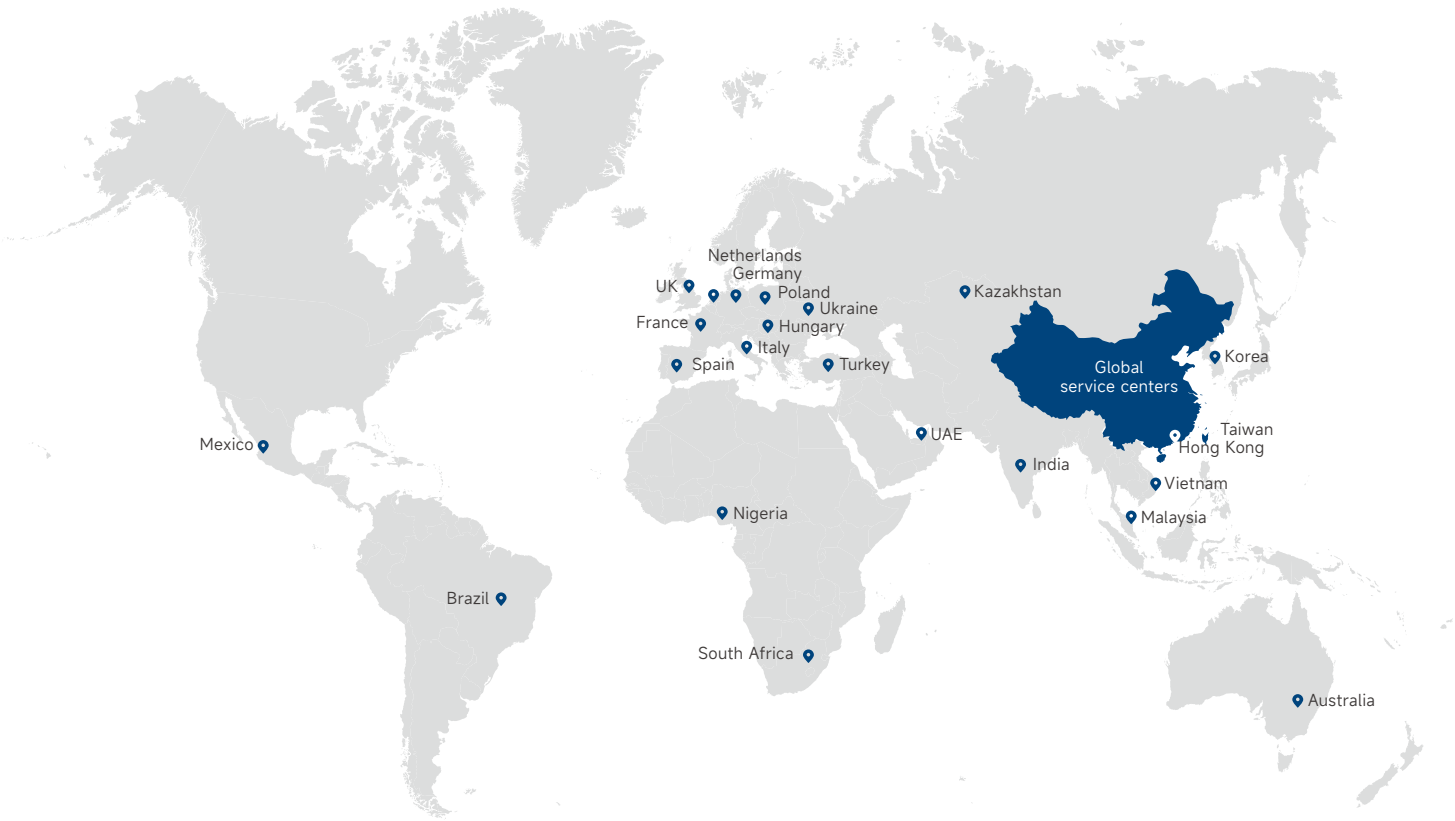


Unlock new business mode independently



KSTAR
Powering the Future

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202401-V1

KSTAR
Powering the Future

Unlock new business mode independently

Green **K**ommerical Solution



WWW.KSTAR.COM WWW.KSTAR.EU

2024

ABOUT KSTAR

1993

KSTAR Established
Enter Offline UPS Field

1998

New Manufacturing Base
Guanlan Industrial Park Inaugurated in Shenzhen

2009

Enter New Energy Field
1st PV Inverter Produced

2013

Explore New Opportunities
Enter the Electric Vehicles Market

2019

CATL & KSTAR Partnership
Establish Joint Venture Factory with CATL

2023

KSTAR Vietnam
Vietnam Plant in Operation

1996

Overseas Expansion
Enter the European and US Market

2004

Further Development
Enter High-power Online UPS Field

2010

IPO and Public Debut
Listed in Shenzhen Stock Exchange

2015

Natinal Certified Technology Center
Certified by National Quality Management System

2021

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



Unlock new business mode independently



180+

Countries & Regions

42GW

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 43GW 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 Superior **K**ommerical Partner



KSG Series

Three Phase / On-grid / 25–40 kW



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



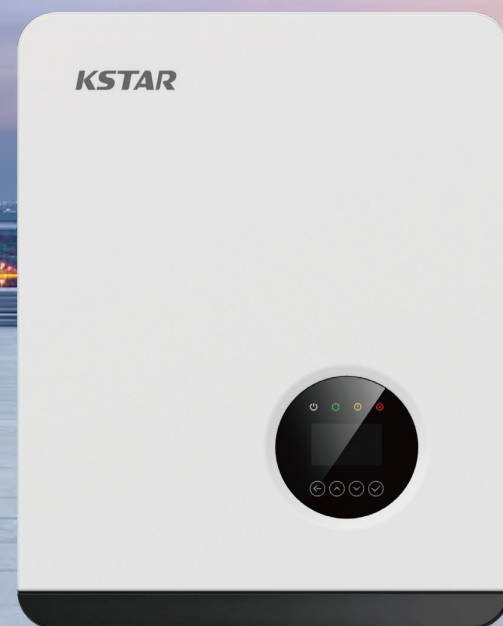
Compatible for big capacity PV panel
WiFi / 4G Plug optional



DC / AC ratio up to 1.5
IP66 Protection




High efficiency up to 98.7%
Smaller and lighter





MODEL	KSG-25KT-M1	KSG-30KT-M1	KSG-40KT-M1
Input(DC)			
Max. DC Voltage		1100 V	
Nominal Voltage		650 V	
Start Voltage		250 V	
MPPT Voltage Range	140 V ~ 1000 V	200 V ~ 1000 V	200 V ~ 1000 V
Number of MPPT Tracker	2	3	3
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	25000 W	30000 W	40000 W
Max. AC Apparent Power	27500 VA	33000 VA	44000 VA
Nominal AC Voltage		400 V 3L+N	
AC Grid Frequency Range		50 / 60 Hz (±5Hz)	
Max. Output Current	39.9 A	47.8 A	63.8 A
Power Factor (cosΦ)		0.8 leading - 0.8 lagging	
THDi		3%	
Efficiency			
Max. Efficiency	98.6%	98.7%	98.7%
Euro Efficiency	98.3%	98.4%	98.4%
Protection Devices			
DC Switch		Yes	
Anti-islanding Protection		Yes	
DC Reverse Polarity 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(WxDxH)	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°C ~+ 60°C	
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		Transformer - less	
Communication		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; AS 4777.2; VDE-AR-N-4105; VDE 0126-1-1; CEI-021; G 99; C10/11; NB/T 32004-2018; GB/T 19964-2012		


G Series

Three Phase / On-grid / 50–80 kW

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

 Reactive Power Control
WiFi / 4G Plug Optional

 DC / AC Ratio up to 1.5
IP66 Protection

 High Efficiency up to 98.6%
Smaller and Lighter



MODEL	G50KT	G60KT	G70KT	G80KT
Input(DC)				
Max. DC Voltage	1100 V			
Nominal Voltage	650 V			
Start Voltage	250 V			
MPPT Voltage Range	200 V ~ 1000 V			
Number of MPPT	4			
Strings Per MPPT	2	2	3	3
Max. input Current Per MPPT	32 A	32 A	45 A	45 A
Max. Short-circuit Current Per MPPT	48 A	48 A	60 A	60 A
Output(AC)				
Nominal AC Output Power	50000 W	60000 W	70000 W	80000 W
Max. AC Apparent Power	55000 VA	66000 VA	77000 VA	88000 VA
Nominal AC Voltage	400 V 3L+N+PE			
AC Grid Frequency Range	50 Hz / 60 Hz (±5Hz)			
Max. Output Current	79.7 A	95.6 A	111.6 A	127.5 A
Power Factor (cosΦ)	0.8 leading - 0.8 lagging			
THDi	3%			
Efficiency				
Max. Efficiency	98.5%	98.5%	98.6%	98.6%
Euro Efficiency	98.2%	98.2%	98.3%	98.3%
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	Type II			
Residual Current Monitoring	Yes			
AC Short Circuit Protection	Yes			
General Specifications				
Dimensions(WxDxH)	515 x 585 x 287 mm			
Weight	51 kg	51 kg	55 kg	55 kg
Operating Temperature Range	-25°C ~+ 60°C			
Cooling Type	Fan Cooling			
Max. Operating Altitude	4000 m			
Max. Operating Humidity	0 - 100% (No Condensation)			
AC Output Terminal Type	OT terminal			
IP Class	IP66			
Topology	Transformer - less			
Communication	RS-485 / Wifi / 4G			
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 60529; IEC 62116; IEC 61727; EN 50549-1; NC RFG; NRS 097; VDE-AR-N-4105; VDE 0126; CEI 0-21; C10/11			

BlueKernel NEW

Three Phase / On-grid / 125 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 2
IP66 Protection



High Efficiency up to 98.7%
Smaller and Lighter



MODEL	G125KT7
Input(DC)	
Max.DC Voltage	1100 V
Max.Input Current Per MPPT	40 A
Max.Short-circuit Current Per MPPT	60 A
Start Voltage	350 V
MPPT Voltage Range	200 - 1000 V
Nominal Voltage	650 V
Number of MPPT	8
Strings Per MPPT	2
Output(AC)	
Nominal AC Output Power	125 kW
Max. AC Apparent Power	125 kVA
Nominal AC Voltage	230 V / 400 V,3W +PE,3W+N+PE
AC Grid Frequency Range	50 / 60 Hz ±5Hz
Max. Output Current	181.2 A
Power Factor (cosΦ)	0.8 leading - 0.8 lagging
THDi	< 3% (Nominal Power)
Efficiency	
Max. Efficiency	98.7%
Euro Efficiency	98.5%
Protection Devices	
DC Switch	Yes
Anti-islanding Protection	Yes
Output Over Current Protection	Yes
DC Reverse Polarity Protection	Yes
String Fault Detection	Optional
DC/AC Surge Protection	DC Type II; AC Type II
AC Short Circuit Protection	Yes
AFCI Function	Optional
Night SVG Function	Optional
PID Recovery	Optional
Insulation Detection	Yes
Residual Current Monitoring	Yes
General Specifications	
Dimensions(WxDxH)	965 x 700 x 355 mm
Weight	85 kg
Operating Temperature Range	-30 ~ 60°C
Cooling Type	Fan Cooling
Max. Operation Altitude	5000 m (> 4000 m Derating)
Max. Operating Humidity	0 ~ 100%
IP Class	IP66
Noise	≤ 75 dB
Topology	Transformer less
Communication	RS-485 / PLC / WIFI / 4G
Display	LED, Buletooth + APP

* For the latest certificate information, please contact Kstar.

BluePulse Series

KAC50DP-BC100DE

-  Safe & Reliable
-  Quick installation & User-friendly
-  Economical & Efficient



Outdoor Battery Cabinet Parameters

Technical parameters	BC100DE
Battery Type	LFP
Battery Module Capacity	5.12 kWh
Number of Modules	10*2
Total Battery Capacity	102.4 kWh
Nominal Voltage	512 V
Operating Voltage Range	448 V ~ 565 V
Charge / Discharge Rate	Max. 0.5C
DoD	90%
General parameters	BC100DE
Dimensions(WxDxH)	1100 x 1100 x2380 mm
Weight	< 1.5 T
Installation Site	Outdoor
IP Protection	IP54
Anti Corrosion Level	C4
Operation Humidity	5% ~ 95% (No Condensing)
Operation Ttemperature	-30°C ~+ 50°C
Max. Operation Altitude	4000 m (> 3000 m Derating)
Communication Port	Ethernet; CAN
Communication Protocol	CAN; MODBUS TCP / IP
Cooling Method	Air Conditioner
Standards	IEC 62619-2017; UN 38.3; IEC 61000-6-2/4



Product Specifications	KAC50DP
PV Side	
Max. Input Voltage	1000 V
MPPT Voltage Range	350 V ~800 V
Max. Current per MPPT	36 A
Number of MPPT	3
Number of Inputs Per MPPT	2
Battery Side	
Max. Input Voltage	750 V
Min. Input Voltage	350 V
DC Voltage at Nominal Operation	500 V ~ 750 V
Max. DC Current	55 A*2
Max. DC Input Power	55 kW
Number of DC Inputs	2
AC Side (On Grid)	
Nominal AC Output Power	50 kW
Max. AC Output Power	55 kVA
Max. AC Current	80 A
Nominal AC Voltage	400 V
AC Voltage Range	340 V ~ 440 V
Nominal Grid Frequency/Frequency Range	50 / 60 Hz ±5Hz
THDv	< 3% (100% Load)
Adjustable PF Range	-1 (Lagging) ~ 1 (Leading)
AC Side (Off Grid)¹⁾	
Nominal AC Voltage	230 / 400 V ±3%; 3L+N+PE
THDv	< 3% (Linear Load)
Nominal Grid Frequency/Frequency Range	50 / 60 Hz
Nominal AC Output Power	50 kW
Max. AC Output Power	55 kVA
Efficiency	
Max. Efficiency	97.5%
Protection	
Reverse Connection Protection	Yes
DC Switch	Yes
Over-Temperature Protection	Yes
Grid Monitoring/Earthing Fault Detection	Yes
Insulation Monitoring	Yes
DC/AC Surge Protection	DC Type II; AC Type III
General Parameters	
Dimensions(WxDxH)	650 x 715 x 325 mm
Weight	75 kg
Topology	Transformerless
IP Protection	IP65
Operation Temperature Range	-25 ~ 60°C (> 45°C Derating)
Operation Humidity Range	0 ~ 100% (No Condensing)
Cooling Method	Intelligent Air Cooling
Max. Operation Altitude	3000 m
Communication Port	RS-485 / CAN
Standards	IEC 62477; IEC 61000; CE;GB/T; IEC 62109; IEC 61683; IEC 60068; IEC 61727; IEC 62116; EN 50549; VDE 4105; G 99

¹⁾ For off-grid application, STS100D or STS250D automatic switching cabinet is needed.

BluePulse Series NEW

KAC120D-BC233DE

- ✔ Safe & Reliable
- ✓ Quick installation & User-friendly
- ⚡ Economical & Efficient



Outdoor Battery Cabinet Parameters

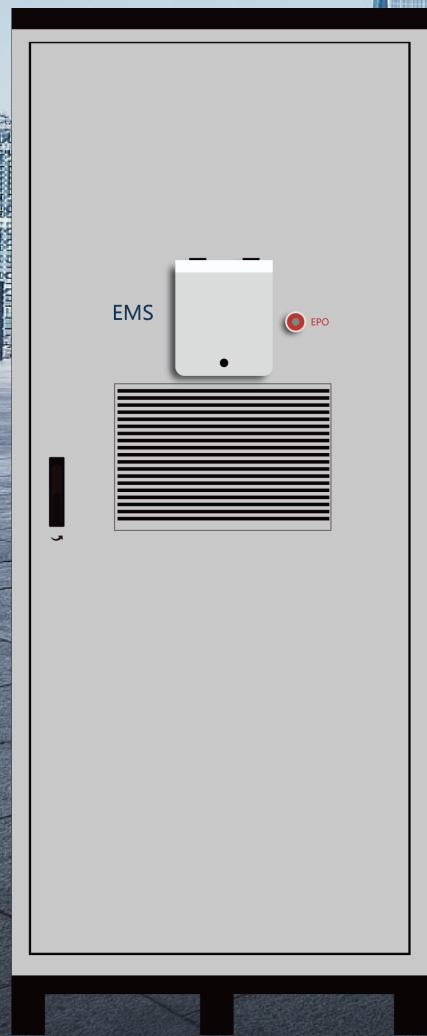
Technical Parameters	BC197DE	BC215DE	BC233DE
Battery Type		LFP	
Battery Module Capacity		17.92 kWh	
Number of Modules	11	12	13
Total battery Capacity	197 kWh	215 kWh	233 kWh
Nominal Voltage	704 V	768 V	832 V
Operating Voltage Range	616 V ~ 792 V	672 V ~ 864 V	728 V ~ 936 V
Charge/Discharge Rate		0.5C	
DoD		90%	
General Parameters	BC233DE		
Dimensions(WxDxH)	1300 x 1200 x 2380 mm		
Weight	< 2.5 T		
Installation Site	Outdoor		
IP Protection	IP54		
Anti Corrosion Level	C4		
Operation Humidity	5% ~ 95% (No Condensing)		
Operation Temperature	-30°C ~+ 50°C		
Max. operation Altitude	4000 m (> 3000 m Derating)		
Communication Port	Ethernet; CAN		
Communication Protocol	CAN; TCP		
Cooling Method	Air Conditioner		
Standards	IEC 62619-2017; UN 38.3; IEC 61000-6-2/4		

Product Specifications	KAC120D
Battery Side	
Max. Input Voltage	1000 V
Min. Input Voltage	580 V
DC Voltage at Nominal Operation	580 V ~ 1000 V
Max. DC Current	232 A
Max. DC Input Power	134 kW
Number of DC Inputs	1
AC Side (On Grid)	
Nominal AC Output Power	120 kW
Max. AC Output Power	132 kW
Max. AC Current	191 A
Nominal AC Voltage	400 V
AC Voltage Range	400 Vac, (-15% + 10%)
Nominal Grid Frequency/Frequency Range	50 / 60 Hz ±5Hz
THDv	< 1.5% (Rated Power)
Adjustable PF Range	-1 ~+ 1
AC Side (Off Grid) ¹⁾	
Nominal AC Voltage	230 / 400 V ±3%; 3L+N+PE
THDv	< 1% (Resistive Load)
Nominal Grid Frequency/Frequency Range	50 / 60 Hz
Nominal AC Output Power	120 kW
Max. AC Output Power	132 kVA
Efficiency	
Max. Efficiency	98.5%
Protection	
Reverse Connection Protection	Yes
DC Switch	Yes
Over-Temperature Protection	Yes
Insulation Monitoring	Yes
DC/AC Surge Protection	Type II(DC side); Type III(AC side)
General Parameters	
Dimensions(WxDxH)	650 x 310 x 900 mm
Installation	Wall Mounted / Plug in
Weight	80 kg
Topology	Transformerless
IP Protection	IP66
Operation Temperature Range	-40 ~ 60°C (> 45°C Derating)
Operation Humidity Range	0 ~ 100% (No Condensing)
Cooling Method	Intelligent Air Cooling
Max. Operation Altitude	5000 m / (> 3000 m Derating)
Communication Port	RS-485 / CAN 2.0
Standards	CE; IEC 61000; IEC 62477-1; 2012; IEC 61727; IEC 62116; GB/T 34120; GB/T 34133

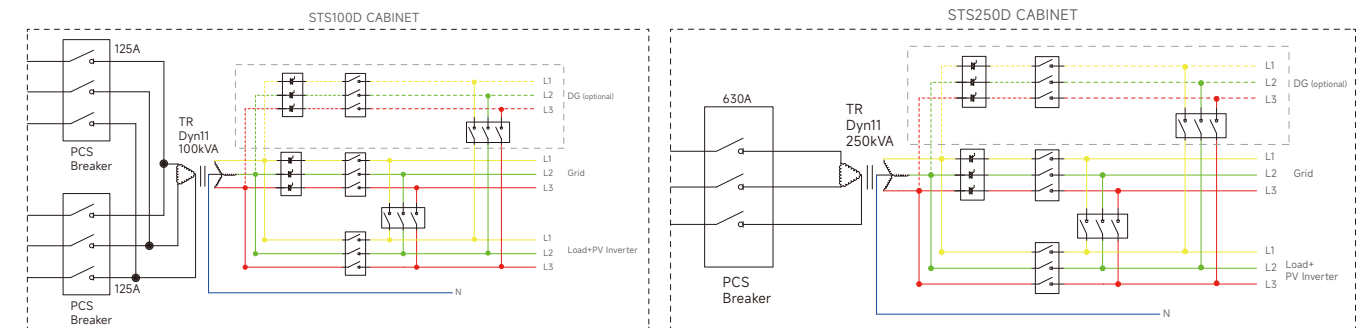
1) For off-grid application, STS250D automatic switching cabinet is needed.

STS100D/STS250D NEW Automatic Switching Cabinet

On-grid / Off-grid / 100–250 kVA



Block Diagram:



Parameter	STS100D	STS250D
Rated Voltage	400 V	400 V
Rated Current	144 A	360 A
Rated Frequency	50 Hz	50 Hz
Rated Power	100 kVA	250 kVA
Max. grid Input Power	200 kVA	500 kVA
Switch Time Between On/Off-grid	≤ 20ms	≤ 20 ms
PCS Input	125 A*2	630 A
Max. grid Input	400 A	1000 A
DG Input(Optional)	400 A	1000 A
Load Breaker	400 A	1000 A
Grid/DG Bypass Breaker	200 A*2	630 A*2
Isolation Transformer	100 kVA	250 kVA
Lightning Protection	Type II	Type II
Protection Degree	IP54	IP54
Relative Humidity	0 ~ 100%	0 ~ 100%
Operating Temperature	-25°C ~+ 45°C	-25°C ~+ 45°C
Cooling Type	Air Cooling	Air Cooling
Dimension(WxDxH)	1170 x 2380 x 1105 mm	900 x 2380 x 930 mm
Weight	791 kg	1250 kg
Operating Altitude	≤ 3000 m	≤ 3000 m
Communication	RS-485 / 4G / Ethernet	RS-485 / 4G / Ethernet
Installation	Tower - type	Tower - type

* The capacity of the PV inverter for AC coupling can't be larger than the capacity of PCS.

** One STS100D can be connected to a maximum of two KAC50DP.

*** One STS250D can be connected to a maximum of five KAC50DP or two KAC120D.

EMS01D Second-level EMS Communication Box



Dual power source, 220VAC and 24VDC for higher reliability.



Up to 20 portals available for southbound communication interfaces.



Support remote monitoring via Ethernet / WiFi / 4G, and local monitoring via web page.



Various accessible interfaces including DI / DO, USB, SD, RS-485.



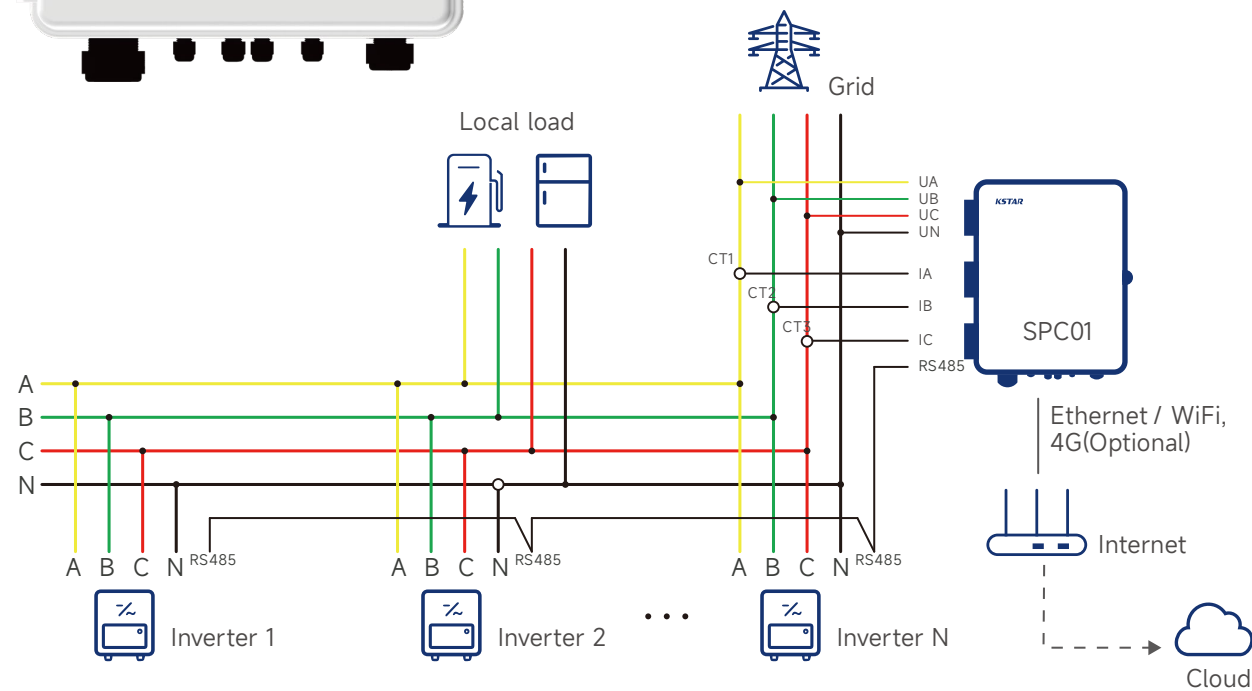
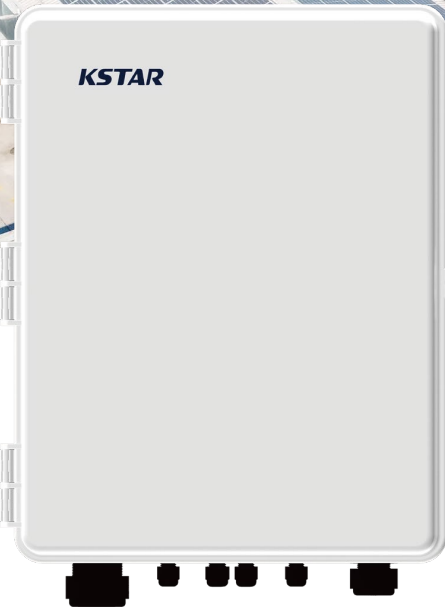
IP65 outdoor design.

MODEL	EMS01D
Southbound Communication	
Southbound EMS Communication Method	Ethernet (Electrical)
Max. number of Southbound EMS	20
Max. distance of Southbound Communication	100 m
Ethernet Port Parameter	10 / 100 Mbps Adaptive
Northbound Communication	
Northbound Communication Method(Default)	Ethernet (Electrical / Optical Fiber)
Northbound Communication Method(Optional)	WLAN / 4G
Local Display	Embedded Web
Indicator Lights	Power, Running, Fault+Ethernet Status Indicators
Port Parameters	
Number of RS485 Interfaces	7
USB Interface	1 with USB2.0
SD Interface	1
Digital Input Detection Interface	8
Digital Output Control Interface	4, NO+NC
Indicator Lights	Power, Running, Fault + Ethernet Status Indicators
Environmental Parameters	
Operating Temperature Range	-30°C - + 55°C
Storage Temperature Range	-40°C - + 70°C
Operating Relative Humidity	5% ~ 95% (No condensation)
Electrical Parameters	
Power Supply	DC / AC Redundant Power Supply
AC power Supply Voltage Range	85 - 264 VAC
DC power Supply Voltage Range	13 - 36 VDC
Standby Power Consumption	< 20 W
Mechanical Parameters	
O&M Method	Front Panel Access
Dimensions(WxDxH)	560 x 300mm x 600 mm
Weight	34 kg
IP Degree	IP65
Installation Method	Wall / Bracket / Floor Mounted

SPC01 Power Control Box

- Powerful
- Simple
- Adaptable





- ▶ Max. number of inverter up to 80
- ▶ Max. distance of inverter communication up to 1000m
- ▶ Upload the real-time operating data to local monitoring or cloud server
- ▶ Supports multiple communication modes



Technical Specifications	SPC01
Input	
Rated Input Voltage	230 VAC (L-N) / 400 VAC (L-L)
Input Voltage Range	173 - 480 VAC
Gird Connection Type	3W + N + PE
Rated Input Frequency	50 / 60 Hz
Input Frequency Range	45 - 65 Hz
Lightning Protection Grade	Grade C
Communication	
Inverter Communication	RS-485*4
Max. number of Inverter	80
Max. distance of Inverter Communication	1000 m
Communication	Ethernet / WiFi / 4G (Optional)
HMI	Bluetooth + Indicator Light
Function	
Communication Failure Shutdown	Yes
Remote Update	Yes
Zero Export	Yes
Zero-export Response Time	2s
Zero-export Control Accuracy	3%
Mechanical Parameter	
Dimensions(WxDxH)	420 × 132 × 320 mm
Weight	4 kg
Operation Temperature Range	-25 - + 60°C
Cooling Type	Natural Convection
Max. Operation Altitude	3000 m
Operation Humidity	0 - 100% (No Condensation)
IP Class	IP65
Installation	Wall / Rack Mounted

KSM-SW1-S Stick Logger (WiFi)

By collecting operating data and power generation of inverter, stick logger (WiFi) can run a long-term and efficient monitoring of PV system. Meanwhile, remote monitoring cloud platform provides powerful data support for the logger. The WiFi module is integrated inside the logger which enables transmitting the data to the monitoring platform via WiFi.

 Remote Control
  Remote Upgrade
  Plug and Play
  7 / 24 Monitoring



MODEL	LSW-3-C
Wireless Parameters	
Working Frequency	2.412 GHz ~ 2.484 GHz
Transmitting Power	802.11b: +14+/-2dBm(@11Mbps)
	802.11g: +14+/-2dBm(@54Mbps)
	802.11n: +13+/-2dBm(@HT20,MCS7)
Antenna Option	External WiFi Stick Antenna
Hardware Parameters	
Data Interface	RS-485
Working Voltage	DC 5 V - DC 12 V
Max. Working Voltage	DC 15 V
Working Power	1.5 W
Indicator Light	One connected to inverter
	One connected to router
	One heartbeat indicator light
Data Storage	Default: 2MBYTE 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
External Interface	DB 9
Software AT+Instruction Set Parameters	
Number of Connections	One
Serial Communication Rate	Default: 9600 bps (1200 - 115200 bps Optional)
Data Transmission Interval	Default: 5 mins (1 - 15 mins Optional)
Configuration	AT+Instruction Set
	Localweb Configuration
	Remote Server
Firmware Upgrade	Local Web Upgrade
	Remote Update
Working Mode	AP+STA
Others	Real-time Control, Data Resuming

YDS60-80 Smart Energy Meter

YDS60-80 is a DIN rail energy meter for three phase measuring.

With integrated RS-485 interface, it allows real-time reading of all relevant data, such as energy (total and partial), current, voltage, frequency, active and reactive power.



MODEL	YDS60-80
General	
Network System	3P3W / 3P4W
Nominal Voltage	3 × 230 / 400 VAC, 50 / 60 Hz
Current Measurement Range	Direct Connected: from 0A to 80A, CT Connected: >80 A
Voltage Measurement Range	Direct Connected: from 90V to 500V, PT Connected: from 500 V to 1000 V
Power Consumption	≤ 1.5 W
Mounting	On 35mm DIN rail
Measurement Category	Category III
Pollution Degree	2
Measurement Accuracy	
Current (Direct Connected)	0.5% from 8 A to 80 A, ±0.4 A from 0.4 A to 8 A
Current (CT Connected)	0.5% from 0.5 A to 5 A, ±0.025 A from 0.025 A to 0.5 A
Phase Voltage	Class 0.5
Line Voltage	Class 0.5
Frequency	±0.02 Hz from 45 Hz to 65 Hz
Power	Class 1
Power Factor	±0.02 from -1 to 1
Active Energy	Class 1
Reactive Energy	Class 2
Environmental Conditions	
Operating Temperature	-25°C to 55°C
Storage Temperature	-40°C to 85°C
Humidity	5% to 95% RH (non-condensing)
Altitude	≤ 2000 m
Voltage Input (Ph-N)	
Operating Voltage	3 × 230 / 400 VAC, 50 / 60 Hz
Power Dissipation Voltage Circuits	< 0.5 VA per phase
Measurement Range	AC 30 V to 265 V
Current Input	
Rated Current	3 x 1.5(6) A
Power Dissipation Current Circuits	< 0.2 VA per phase
Measurement Range	AC 0.05 A to 6 A
Communication	
Communication Protocol	Modbus
Communication Port	RS-485, half-duplex
Baud Rate	4800 bps / 9600 bps (default) / 19200 bps / 115200 bps
Stop Bit	1 (default) / 2
Check Bit	None (default) / Odd / Even

* YDS60-80 smart energy meter is being used along with BluePulse Series C&I ESS.

** It has not included Current Transformers. For system larger than 50 kW, CT connection is required. Please select the 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.

SDM630MCT 40mA/V2

DIN Rail Energy Meter for Single and Three Phase Electrical Systems

- ▶ Measures kWh kVArh, kW, kVA, 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
- ▶ 40mA / 1A / 5A CT connection
- ▶ Better than Class 1 / B accuracy



MODEL	SDM630MCT40mA	SDM630MCT V2
Type of Measurement	RMS including harmonics on three phase AC system (3P,3P+N)	
Power	0.5% of range maximum	0.1% 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	40 mA	1 A / 5 A
CT Primary	1 - 9999 A	
Rated Voltage (Un)	230 V LN 120 V L-N	
Operational Voltage	80% ~ 120% of Un	
Output		
SDM630MCT mV/mA Series	2 Pulse Outputs + RS-485 Modbus	
RS485 Modbus Communications		
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	

* SDM630MCT V2 smart meter is recommended to be used along with C&I string inverters.

** It has not included Current Transformers. Users should choose the 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.

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.**

Global Presence, Local Excellence: Our Worldwide Network

With offices strategically positioned across the globe, we seamlessly connect our innovative solar solutions with communities everywhere. Experience the assurance of a truly global partner — from the manufacturing floor to your doorstep, our commitment to excellence transcends borders.



With cutting-edge technology and a dedicated workforce, we boast a robust production capacity that ensures timely delivery without compromising quality. From concept to creation, our commitment to innovation and streamlined processes empowers us to meet the growing demands for renewable energy solutions.



PV assembly workshop



IGBT/MOS welding



Aging Test



Large-machine fully automatic test system



01 EPS factory's Green Revolution Turkey, 900kW KSG-120CL-M0



02 C&I ESS Project in the Netherlands



03 C&I ESS Project in Hungary



04 Energy cost reduction for Mineral water factory
Turkey, 900kW KSG-120CL-M0

