Shaping the new energy landscape

KSTAR
Powering the Future

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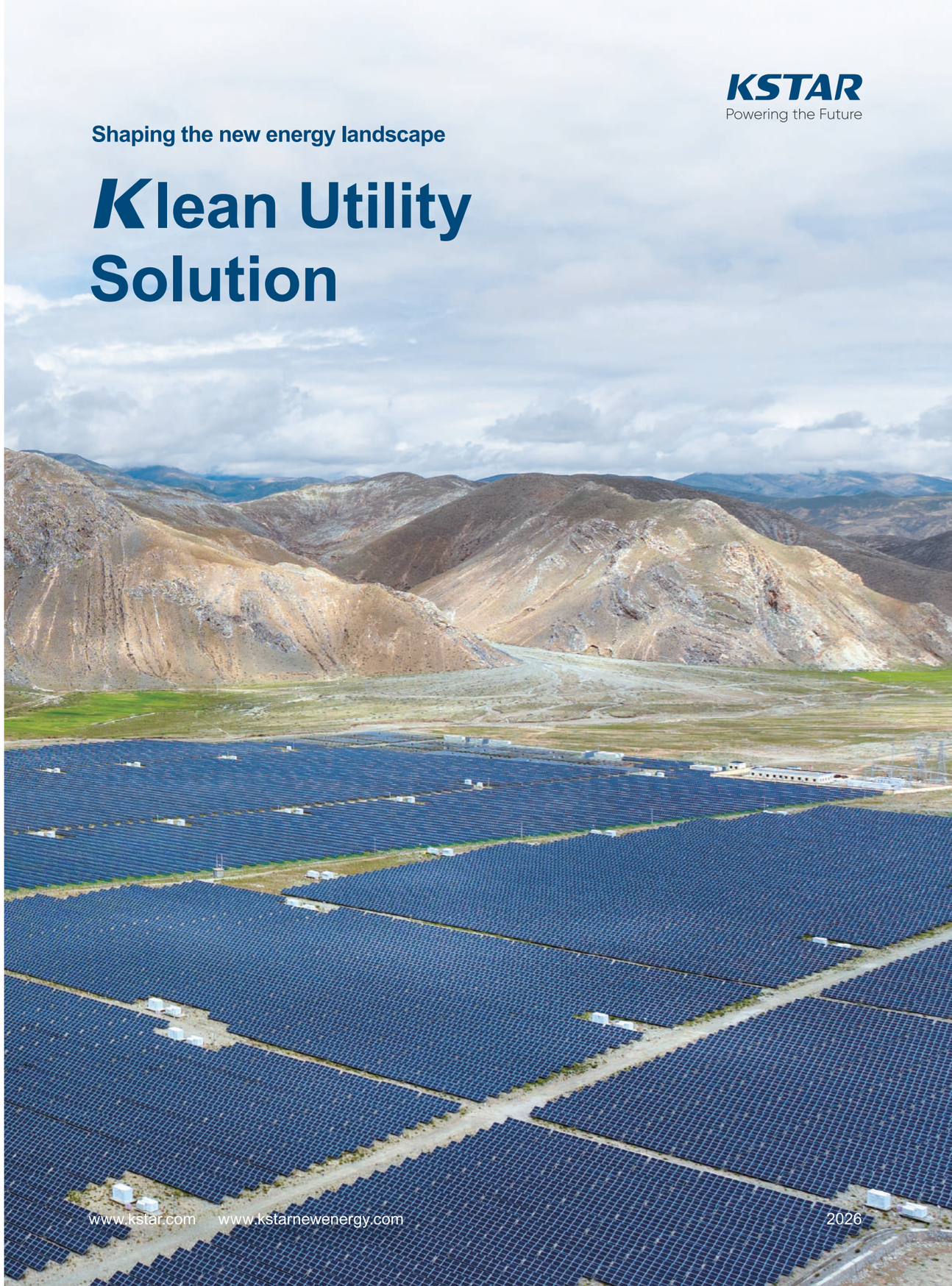
*K*lean Utility Solution



www.kstar.com www.kstarnewenergy.com 2026

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

2025
Jiangxi Gold Sunshine
Launches advanced punched grid plate production

Unlock new business mode independently

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 68GW of KSTAR products already installed globally.

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

180+
Countries & Regions

68GW
PV Installation

30+
Years History

Thriving Three Decades: The Superior Klean Utility Solution

BlueWave Series

NEW

Three Phase / 1500 Vdc / 350 kW

Lower CapEx and OpEx

- Power Line Communication (PLC)
- Night SVG Function
- Support Both Al and Cu Cable

Maximize Solar Yield

- 16 Independent MPPT
- Max. Efficiency up to 99%
- Smart I-V Curve Scan

Improved Safety

- Type II DC & AC SPD
- Anti-PID Function
- AFCI Optional

MODEL	G350KTHC	G350KTH
Input (DC)		
Max. DC Voltage	1500 V	
Max. Input Current per MPPT	30 A	40 A
Max. Short-circuit Current per MPPT	45 A	60 A
Start Voltage	650 V	
MPPT Voltage Range	500 V ~ 1500 V	
Number of Strings	32	24
Number of MPPT	16	12
Strings per MPPT	2	
Output (AC)		
Nominal AC Output Power	350 kW	
Max. AC Apparent Power	352 kVA	
Nominal AC Voltage	800 V, 3W+PE	
Nominal Frequency	50 / 60 Hz ±5Hz	
Frequency Range	45 ~ 55 Hz / 55 ~ 65 Hz	
Max. Output Current	254 A	
Power Factor (cosΦ)	0.8 leading - 0.8 lagging	
THDi	< 3% (at nominal power)	
Efficiency		
Max. Efficiency	99%	
Protection Devices		
DC Switch	Yes	
Anti-islanding Protection	Yes	
Over Current Protection	Yes	
DC Reverse Polarity Protection	Yes	
String Fault Detection	Yes	
DC / AC Surge Protection	Type II	
AC Short Circuit Protection	Yes	
Residual Current Detection	Yes	
PID Recovery	Optional	
Night SVG Function	Optional	
General Specifications		
Dimensions (W x H x D)	1180 x 860 x 362 mm	
Weight	125 kg	
Operating Temperature Range	-30 ~ 60°C	
Cooling Type	Fan Cooling	
Max. Operation Altitude	5000 m (> 3000 m Derating)	
Max. Operating Humidity	0 ~ 100% (non-condensing)	
AC Output Terminal Type	OT terminal	
IP Class	IP66	
Noise (dB)	≤ 75 dB	
Topology	Transformerless	
Communication	Modbus RS-485 / PLC	
Display	LED , Buletooth+APP	

MV Central Inverter

Outdoor / 1500 Vdc / 2500–3125 kW

- Max. PV Voltage up to 1500 V
  DC / AC Ratio up to 1.8
- AGC / AVC, Night SVG Function
  LVRT / HVRT / FRT Function
- Full Power Output under 55℃
  IP55 for Outdoor Use
- Modular Design for Easy Maintenance
  Max. 18 DC Inputs

MODEL	GSM2500D	GSM3125D
Input (DC)		
Max. DC Input Voltage	1500 Vdc	
Min./Start Voltage	860 ~ 940 V (adjustable)	
MPPT Voltage Range	875 ~ 1300 V	
No. of MPPT	2	
No. of DC Input	Max. 18	
Max. DC Input Current [1]	3207 A	4009 A
Output (AC)		
Rated AC Output Power	2500 kW	3125 kW
Max. AC Output Apparent Power	2750 kVA	3437 kVA
Rated AC Voltage	600 Vac, 3W+PE	
AC Voltage Range	510 Vac ~ 660 Vac	
Rated Grid Frequency	50 / 60 Hz	
AC Grid Frequency Range	45 ~ 55 Hz / 55 ~ 65 Hz (adjustable)	
Rated Output Current	2406 A	3007 A
Max. Output Current	2646 A	3308 A
Power Factor (cosΦ)	0.8 leading - 0.8 lagging	
THDi	< 3% (at nominal power)	
Efficiency		
Max. Efficiency	99.00%	
Euro Efficiency	98.70%	
Protection		
DC Input Protection	Load Break Switch + Fuse	
AC Output Protection	Circuit Breaker	
Surge Protection	DC Type I+II; AC Type II	
Anti-islanding Protection	Yes	
Insulation Monitoring	Yes	
Leakage Current Monitoring	Yes	
Overheat Protection	Yes	
DC Reverse Polarity Protection	Yes	
AC Short-circuit Protection	Yes	
Anti-PID Function	Optional	
General Specifications		
Dimensions (W x H x D)	2725 x 2350 x 1602 mm	
Weight	3.5 t	
IP Class	IP55	
Topology	Transformerless	
Operating Ambient Temperature Range	-40 ~+ 60℃ (> 50℃ derating)	
Operating Relative Humidity Range	0 ~ 100%	
Max. Operating Altitude	4000 m (> 3000 m derating)	
Cooling Method	Forced Air Cooling	
Power Consumption at Night	< 250 W	
Communication	Modbus RS-485	
Display	Touch Screen	

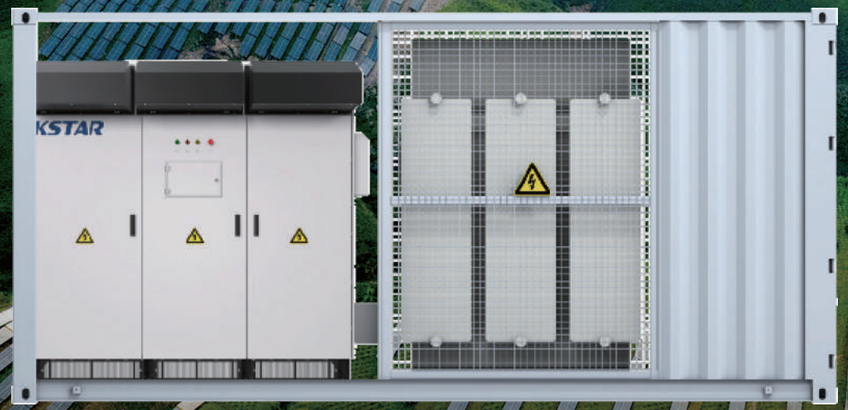
1) Limited by software under DC input voltage of 875 V.

MV Power Station

Turnkey solution for large-scale PV plants

20-ft Standard Container / All-in-one / 2500–3125 kW

- Max. PV Voltage up to 1500 V
  DC / AC Ratio up to 1.8
- AGC / AVC, Night SVG Function
  LVRT / HVRT / FRT Function
- Full Power Output under 50°C
  Support Outdoor Installation
- Modular Design for Easy Maintenance
  Multiple DC Inputs



MODEL	GSM2500D-MV	GSM3125D-MV
Input (DC)		
Max. DC Input Voltage	1500 Vdc	
Min./Start Voltage	860 ~ 940 V (adjustable)	
MPPT Voltage Range	875 ~ 1300 V	
No. of MPPT	2	
No. of DC Input	Max. 18	
Max. DC Input Current [1)]	3207 A	4009 A
Output (AC)		
Rated AC Output Power	2500 kW	3125 kW
Max. AC Output Power	2750 kVA	3437 kVA
Inverter Max. Output Current	2646 A	3308 A
AC Output Voltage	10 ~ 35 kV	
Rated Grid Frequency	50 / 60 Hz	
AC Grid Frequency Range	45 ~ 55 / 55 ~ 65 (adjustable)	
Power Factor (cosΦ)	0.8 leading - 0.8 lagging	
THDi	< 3% (at nominal power)	
Efficiency		
Inverter Max. Efficiency	99.00%	
Inverter Euro Efficiency	98.70%	
Transformer		
Transformer Rated Power	2500 kVA	3125 kVA
Transformer Max. Power	2750 kVA	3437 kVA
LV / MV Voltage	0.6 kV / (10 ~ 35) kV	
Vector Group	Dy 11	
Cooling Type	ONAN	
Oil Type	Mineral Oil (PCB free)	
Protection		
DC Input Protection	Load Break Switch + Fuse	
Inverter AC Output Protection	Circuit Breaker	
AC MV Output Protection	Circuit Breaker	
Surge Protection	DC Type I+II; AC Type II	
Anti-islanding Protection	Yes	
Insulation Monitoring	Yes	
Leakage Current Monitoring	Yes	
Overheat Protection	Yes	
DC Reverse Polarity Protection	Yes	
AC Short-circuit Protection	Yes	
Anti-PID Function	Optional	
General Specifications		
Dimensions (W x H x D)	6058 x 2896 x 2438 mm	
Weight	13 t	
IP Class	Inverter IP55 / Others IP54	
Auxiliary Power Supply	10 kVA	
Operating Ambient Temperature Range	-40 ~+ 60℃	
Operating Relative Humidity Range	0 ~ 100% (non-condensing)	
Max. Operating Altitude	1000 m (Standard) / > 1000 m (Optional)	
Cooling Method	Forced Air Cooling	
Communication	IEC 104 Optical Fiber	
Display	Touch Screen	

1) Limited by software under DC input voltage of 875 V.

MV Power Station

Turnkey solution for large-scale PV plants

40-ft Standard Container / All-in-one / 5000–6250 kW

- Max. PV Voltage up to 1500 V
  DC / AC Ratio up to 1.8
- AGC / AVC Night SVG Function
  LVRT / HVRT / FRT Function
- Max.36 DC Inputs
  IP55 for Outdoor Use
- Modular Design for Easy Maintenance
  Full Power Output under 50°C

MODEL	GSM5000D-MV	GSM6250D-MV
Input (DC)		
Max. DC Input Voltage	1500 Vdc	
Min./Start Voltage	860 ~ 940 V (adjustable)	
MPPT Voltage Range	875 ~ 1300 V	
No. of MPPT	4	
No. of DC Input	Max. 36	
Max. DC Input Current [1]	6414 A	8018 A
Output (AC)		
Rated AC Output Power	5000 kW	6250 kW
Max. AC Output Power	5500 kVA	6875 kW
Inverter Max. Output Current	5293 A	6616 A
AC Output Voltage	10 ~ 35 kV	
Rated Grid Frequency	50 / 60 Hz	
AC Grid Frequency Range	45 ~ 55 Hz / 55 ~ 65 Hz (adjustable)	
Power Factor (cosΦ)	0.8 leading - 0.8 lagging	
THDi	< 3% (at nominal power)	
Efficiency		
Inverter Max. Efficiency	99.00%	
Inverter Euro Efficiency	98.70%	
Transformer		
Transformer Rated Power	5000 kVA	6250 kVA
Transformer Max. Power	5500 kVA	6875 kVA
LV / MV Voltage	0.6 kV - 0.6 kV / (10 ~ 35) kV	
Vector Group	Dy 11 y11	
Cooling Type	ONAN	
Oil Type	Mineral Oil (PCB free)	
Protection		
DC Input Protection	Load Break Switch + Fuse	
Inverter AC Output Protection	Circuit Breaker	
AC MV Output Protection	Circuit Breaker	
Surge Protection	DC Type I+II; AC Type II	
Anti-islanding Protection	Yes	
Insulation Monitoring	Yes	
Leakage Current Monitoring	Yes	
Overheat Protection	Yes	
DC Reverse Polarity Protection	Yes	
AC Short-circuit Protection	Yes	
Anti-PID Function	Optional	
General Specifications		
Dimensions (W x H x D)	12192 x 2896 x 2438 mm	
Weight	29 t	
IP Class	Inverter IP55 / Others IP54	
Auxiliary Power Supply	10 kVA	
Operating Ambient Temperature Range	-40 ~+ 60°C	
Operating Relative Humidity Range	0 ~ 100%	
Max. Operating Altitude	1000 m (Standard) / > 1000 m (Optional)	
Cooling Method	Forced Air Cooling	
Communication	IEC 104 Optical Fiber	
Display	Touch Screen	

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KSM-SCS-04

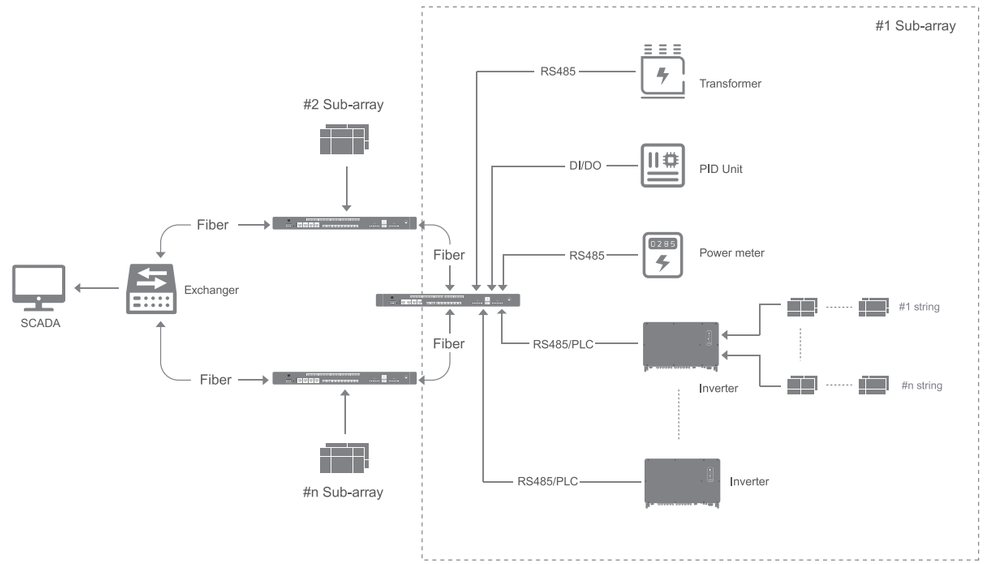
PV Communication Box

Multiple Communication:
RS-485+CAN+PLC+4G (optional)

Maximum Transmission
Distance up to 20km

Built-in High Performance
Data Collector

MODEL	KSM-SCS-04
Configuration	
Internal Data Collector Model	KSM-DCU-04
Number of RS-485 Port	8
Number of CAN Port	2
Number of PLC Port	1
4G Communication	Optional
Optical Fiber Ring Network	1 pair
Number of FE Ports	4
Number of DI & DO Ports	16*DI; 8*DO
Technical Parameters	
Power Supply Voltage Range	100 ~ 240 Vac
Rated PLC Operating Range	800 Vac
Rated PID Operating Range	800 Vac
Rated Operating Frequency	50 Hz / 60 Hz
Opeical Fiber Communication	
Central Wavelength	1310 nm
Transmission Distance	20 km
General	
Operating Temperature Range	-20℃ ~ 55℃
Relative Humidity	5% ~ 95% (Non-condensing)
Cable Access Mode	Bottom in & out
Maintenance	Front
Dimensions (W x H x D)	540 x 670 x 290 mm
Weight	31 kg
IP Degree	IP65
Installation	Bracket / Wall Mounting / Pole Mounting



GSC24-MH

1500Vdc PV Array Combiner Box

- Positive & Negative DC Fuse Protection
  Alarms for PV Array and Blown Fuse
- Real-time Monitoring of the status
  of Fuse, Breaker, and SPD
- IP65 Protection
  Modular Design for Easy and Quick Maintenance
- RS-485 and Modbus-RTU Protocol
  String Current and Voltage Monitoring

MODEL	GSC24-MH
Input	
Max. PV String Parallel Inputs	24
Rated Current for Each String	Optional
Operating Voltage Range	400 ~ 1500 Vdc
System Power	From PV array
Communication	RS-485 / Modbus - RTU protocol , 9600 bps
Isolation Resistance	> 10 MΩ
Physical	
Dimensions (W x H x D)	860 x 655 x 233 mm
Weight	45 kg
Environment	
Operating Temperature	–40℃ ~ + 65℃
Humidity Range	0 ~ 95% (non-condensing)
Max. Operational Altitude	3000 m
Ingress Protection Rating	IP65

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 Utility Project in the Ukraine 240MW PV Plant

02 Utility Project in the
Russian 300MW PV Plant

03 Utility Project in the
Spain 10MW PV Plant

04 Utility Project in the Pakistan 900MW PV Plant

05 Utility Project in the
Tibet 4747m Altitude PV Plant

07 Utility Project in the
Ukraine 200MW PV Plant

06 Utility Project in the
Zhejiang 550MW Watersurface PV Plant

08 Utility Project in the
Ukraine 15MW PV Plant