

Residential and C&I Intelligent PV Solutions



TBEA Xi'an Electric Technology Co., Ltd.

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TBEA Xi'an Electric Technology Co., Ltd.

About Us

Founded in 2010, TBEA Xi'an Electric Technology Co., Ltd. is a trusted provider of high-performance energy solutions, with expertise in solar power generation, battery energy storage systems (BESS), power conversion systems (PCS), advanced power distribution, flexible HVDC transmission, and intelligent operation & maintenance (O&M) platforms. The Company emphasizes reliability, safety, and long-term value in global energy infrastructure. Its comprehensive portfolio includes grid-connected solar inverters, PCS, high-voltage STATCOM, energy routers for microgrids, flexible HVDC converter valves, and more.

In the solar sector, TBEA Xi'an Electric Technology offers a complete lineup of grid-connected inverters ranging from 8 kW to 9,000 kW, with a cumulative global installation capacity exceeding 100 GW. For energy storage, TBEA Xi'an Electric Technology has delivered BESS solutions with a total installed capacity of 5 GWh, and over 55 GVar of static var generators (SVG). As one of the pioneers in China, the Company provides integrated solutions spanning BESS, microgrids, HVDC systems, SCADA platforms, and the TB-eCloud intelligent O&M system.

TBEA Xi'an Electric Technology maintains a strong international footprint, with operations in more than 20 countries across Asia, Europe, Latin America, and the Middle East. Guided by its mission of "Green Energy for a Better Life", TBEA Xi'an Electric Technology is dedicated to driving the sustainable development of global society through intelligent, efficient, and eco-friendly energy solutions.

38⁺GW

Total designed capacity of
PV and wind power

20⁺

Countries and
regions

20⁺GW

Total access of
TB-eCloud

5⁺GWh

Cumulative global shipments
of energy storage system

55⁺Gvar

Cumulative global
shipments of TSVG

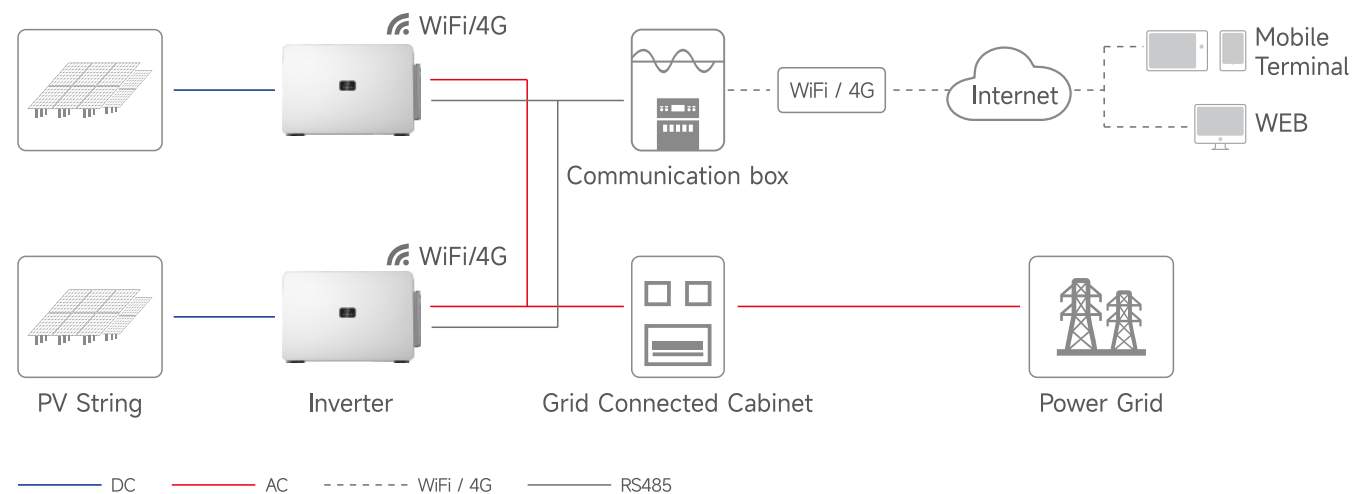
100GW

Cumulative global
shipments of PV inverters

TBEA 特变电工

C&I Solution

System Topology



Solution Features

Tech Advanced

- Maximum efficiency 98.8%, AI control strategy, increase revenue from power generation
- Intelligent string breaking technology & AFCI, reduced fault coverage

Excellent Experience

- Compatible with all PV modules, lower equipment management costs
- Intelligent remote monitoring and diagnosis, improving O&M efficiency

Best Benefits

- 1.5 times capacity ratio, reduced LCOE
- Fast reactive power response, save reactive power equipment cost

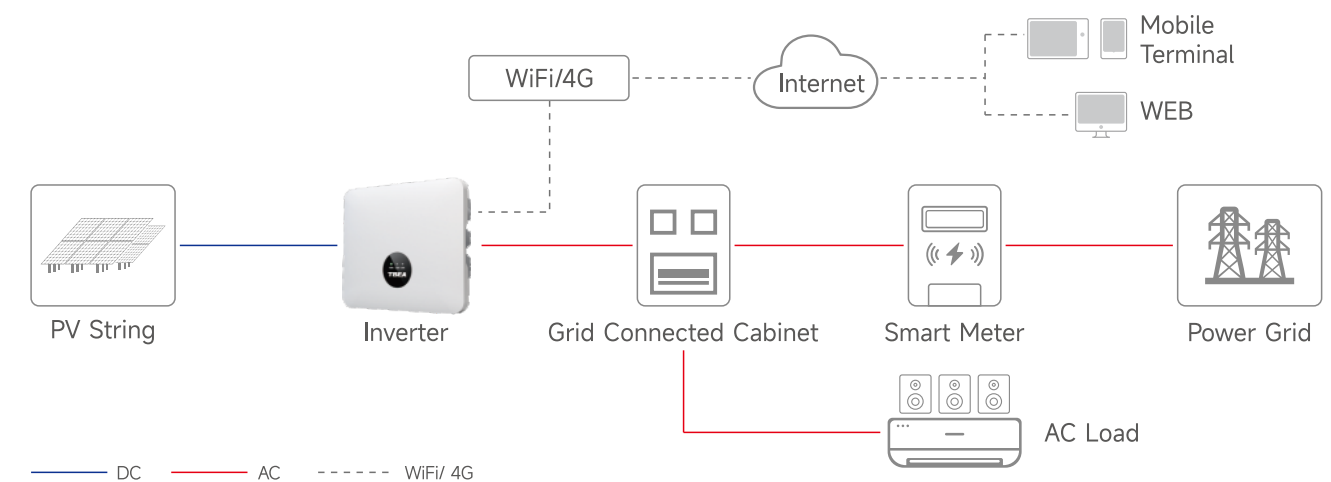
Constantly Reliable

- IP66 & C5, robust environment adaptability
- Intelligent Zone Cooling, prolonging device life, enhance device availability

Applicable Product: TS25-40KTL-A20 TS45-60KTL-A20 TS75-110KTL-A10

Residential Solution

System Topology



Solution Features

Best Benefits

- Wide range working voltage, longer grid connection time
- Multi-channel MPPT design, multi-orientation adaptation, higher generation revenue

Constantly Reliable

- IP66 & C5, robust environment adaptability
- AFCI Function, reduced fault coverage

Intelligent and Friendly

- Intelligent energy management platform, improving O&M efficiency
- String level current detection, improve fault warning timely rate

Applicable Product: TS3-20KTL-A20

TS3/4/5/6/8/10KTL-A20

Three-phase On-grid Inverter



High Power Generation

- Capability of support 150% oversizing
- 1.1 times output overload for higher yield



Safe and Reliable

- IP66 protection & C5 anti-corrosion
- Type II DC&AC Surge protection
- Optional AFCI



Intelligent O&M

- Remote one-click firmware upgrade
- Intelligent remote monitoring and diagnosis, improving O&M efficiency

Technical Datasheet

Model	TS3KTL-A20	TS4KTL-A20	TS5KTL-A20	TS6KTL-A20	TS8KTL-A20	TS10KTL-A20
Input (PV)						
Max. input voltage	1100V					
Rated input voltage	630V					
MPP voltage range	150V ~ 1000V					
Start-up voltage	125V					
Max. input current for each MPPT	16A / 16A				20A / 16A	
Max. short circuit current for each MPPT	25A / 25A				30A / 25A	
No. of MPP trackers	2					
Max. input No. per MPPT	1					
Output (AC)						
Rated output power	3kW	4kW	5kW	6kW	8kW	10kW
Max. apparent power	3.3kVA	4.4kVA	5.5kVA	6.6kVA	8.8kVA	11kVA
Rated AC voltage	220V / 380V 230V / 400V 240V / 415V					
Voltage range	160V ~ 300V / 320V ~ 520V					
Rated AC grid frequency	50Hz / 60Hz					
Grid frequency range	45Hz ~ 55Hz / 55Hz ~ 65Hz					
Max. output current	4.8A	6.4A	8.0A	9.6A	12.8A	16.0A
Adjustable power factor	0.8 (leading) ~ 0.8 (lagging)					
THD at rated output	<3%					
Efficiency						
Max. efficiency	98.3%				98.6%	
European efficiency	97.9%				98.2%	
Protection						
DC switch	Yes					
Insulation resistance detection	Yes					
DC reverse polarity protection	Yes					
AC over-current protection	Yes					
Surge protection	DC&AC Type II					
Anti-islanding protection	Yes					
Residual-current monitoring	Yes					
AFCI function	Optional					
General Data						
Dimensions (W / H / D)	503*435*183mm					
Weight	16kg					
Operating ambient temperature range	-25°C ~ +60°C					
Relative operating humidity (non-condensing)	0% RH ~ 100% RH					
Degree of protection	IP66					
Cooling method	Natural Convection					
Max. operating altitude	3000m					
Night power consumption	<1W					
Topology	Transformerless					
Display	LED Indicators					
Communication interface	RS485 or WiFi or 4G or LAN (Optional)					
DC connection type	MC4					
AC connection type	Waterproof Connector (OT/DT Terminal)					
AC cable specification	External diameter 10mm ~ 16mm					
Grid-connection standard	EN 50549-1, IEC 61727, IEC 61683, IEC 60068, VDE V 0124-100, VDE-4105, UNE 217001, UNE 217002, TED 749, RD 647, CEI 0-21, Compliance with (Greece, Poland, Netherlands)					
Safety standard	IEC/EN 62109-1/-2, IEC 62116					
EMC standard	IEC/EN 61000-6-1/-2/-3/-4, EN 62920, IEC 61000-3-11/12					

TS12/13/15/17/20KTL-A20

Three-phase On-grid Inverter



High Power Generation

- Capability of support 150% oversizing
- 1.1 times output overload for higher yield



Safe and Reliable

- IP66 protection & C5 anti-corrosion
- Type II DC&AC Surge protection
- Optional AFCI



Intelligent O&M

- Remote one-click firmware upgrade
- Intelligent remote monitoring and diagnosis, improving O&M efficiency

Technical Datasheet

Model	TS12KTL-A20	TS13KTL-A20	TS15KTL-A20	TS17KTL-A20	TS20KTL-A20
Input (PV)					
Max. input voltage	1100V				
Rated input voltage	630V				
MPP voltage range	150V ~ 1000V				
Start-up voltage	125V				
Max. input current for each MPPT	32A / 20A			32A / 32A	
Max. short circuit current for each MPPT	48A / 30A			48A / 48A	
No. of MPP trackers	2			2	
Max. input No. per MPPT	2 / 1			2	
Output (AC)					
Rated output power	12kW	13kW	15kW	17kW	20kW
Max. apparent power	13.2kVA	14.3kVA	16.5kVA	18.7kVA	22kVA
Rated AC voltage	220V / 380V 230V / 400V 240V / 415V				
Voltage range	160V ~ 300V / 320V ~ 520V				
Rated AC grid frequency	50Hz / 60Hz				
Grid frequency range	45Hz ~ 55Hz / 55Hz ~ 65Hz				
Max. output current	19.1A	20.7A	24.0A	27.1A	31.9A
Adjustable power factor	0.8 (leading) ~ 0.8 (lagging)				
THD at rated output	<3%				
Efficiency					
Max. efficiency	98.6%				
European efficiency	98.2%				
Protection					
DC switch	Yes				
Insulation resistance detection	Yes				
DC reverse polarity protection	Yes				
AC over-current protection	Yes				
Surge protection	DC&AC Type II				
Anti-islanding protection	Yes				
Residual-current monitoring	Yes				
AFCI function	Optional				
General Data					
Dimensions (W / H / D)	503*435*183mm				
Weight	17.3kg			18.6kg	
Operating ambient temperature range	-25°C ~ +60°C				
Relative operating humidity (non-condensing)	0% RH ~ 100% RH				
Degree of protection	IP66				
Cooling method	Smart forced air cooling				
Max. operating altitude	3000m				
Night power consumption	<1W				
Topology	Transformerless				
Display	LED Indicators				
Communication interface	RS485 or WiFi or 4G or LAN (Optional)				
DC connection type	MC4				
AC connection type	Waterproof Connector (OT/DT Terminal)				
AC cable specification	External diameter 10mm ~ 16mm				
Grid-connection standard	EN 50549-1, IEC 61727, IEC 61683, IEC 60068, VDE V 0124-100, VDE-4105, UNE 217001, UNE 217002, TED 749, RD 647, CEI 0-21, Compliance with (Greece, Poland, Netherlands)				
Safety standard	IEC/EN 62109-1/-2, IEC 62116				
EMC standard	IEC/EN 61000-6-1/-2/-3/-4, EN 62920, IEC 61000-3-11/12				

TS25/27/30/33/36/40KTL-A20

Three-phase On-grid Inverter



High Power Generation

- MPPT current 32A and 40A, compatible with all PV modules
- Capability of support 150% oversizing & 1.1 times output overload for higher yield



Safe and Reliable

- IP66 protection & C5 anti-corrosion
- Type II DC&AC Surge protection
- Optional AFCI



Intelligent O&M

- Intelligent strings monitoring
- Remote one-click firmware upgrade
- Intelligent remote monitoring and diagnosis, improving O&M efficiency

Technical Datasheet

Model	TS25KTL-A20	TS27KTL-A20	TS30KTL-A20	TS33KTL-A20	TS36KTL-A20	TS40KTL-A20
Input (PV)						
Max. input voltage	1100V					
Rated input voltage	630V					
MPP voltage range	180V ~ 1000V					
Start-up voltage	200V					
Max. input current for each MPPT	32A / 32A / 32A			32A / 32A / 40A		
Max. short circuit current for each MPPT	48A / 48A / 48A			48A / 48A / 60A		
No. of MPP trackers	3					
Max. input No. per MPPT	2					
Output (AC)						
Rated output power	25kW	27kW	30kW	33kW	36kW	40kW
Max. apparent power	27.5kVA	29.7kVA	33kVA	36.3kVA	39.6kVA	44kVA
Rated AC voltage	220V / 380V 230V / 400V 240V / 415V					
Voltage range	180V ~ 305V / 312V ~ 528V					
Rated AC grid frequency	50Hz / 60Hz					
Grid frequency range	45Hz ~ 55Hz / 55Hz ~ 65Hz					
Max. output current	39.9A	43.0A	47.8A	52.6A	57.4A	63.8A
Adjustable power factor	0.8 (leading) ~ 0.8 (lagging)					
THD at rated output	<3%					
Efficiency						
Max. efficiency	98.4%					
European efficiency	98.2%					
Protection						
DC switch	Yes					
Insulation resistance detection	Yes					
Ground fault monitoring / grid monitoring	Yes					
DC reverse polarity protection	Yes					
AC short-circuit protection	Yes					
Surge protection	DC&AC Type II					
Anti-islanding protection	Yes					
Residual-current monitoring	Yes					
AFCI function	Optional					
General Data						
Dimensions (W / H / D)	560*533.5*247mm					
Weight	31kg			32kg		
Operating ambient temperature range	-25°C ~ +60°C					
Relative operating humidity (non-condensing)	0% RH ~ 100% RH					
Degree of protection	IP66					
Cooling method	Smart forced air cooling					
Max. operating altitude	3000m					
Night power consumption	<1W					
Topology	Transformerless					
Display	LED Indicators					
Communication interface	RS485 or WiFi or 4G or LAN (Optional)					
DC connection type	MC4 (Max. 6mm²)					
AC connection type	Waterproof Connector (OT/DT Terminal)					
AC cable specification	External diameter 20mm ~ 36mm					
Grid-connection standard	EN 50549-1, IEC 61727, IEC 61683, IEC 60068, VDE V 0124-100, VDE-4105/4110, UNE 217001, UNE 217002, TED 749, RD 647, CEI 0-21, Compliance with (Greece, Poland, Netherlands)					
Safety standard	IEC/EN 62109-1/-2, IEC 62116					
EMC standard	IEC/EN 61000-6-1/-2/-3/-4, EN 62920, IEC 61000-3-11/12					

TS45/50/60KTL-A20

Three-phase On-grid Inverter



High Power Generation

- MPPT current 32A and 40A, compatible with all PV modules
- Capability of support 150% oversizing & 1.1 times output overload for higher yield



Safe and Reliable

- IP66 protection & C5 anti-corrosion
- Type II DC&AC Surge protection
- Optional AFCI



Intelligent O&M

- Intelligent strings monitoring
- Remote one-click firmware upgrade
- Intelligent remote monitoring and diagnosis, improving O&M efficiency

Technical Datasheet

Model	TS45KTL-A20	TS50KTL-A20	TS60KTL-A20
Input (PV)			
Max. input voltage	1100V		
Rated input voltage	630V		
MPP voltage range	200V ~ 1000V		
Start-up voltage	200V		
Max. input current for each MPPT	40A / 32A / 32A / 40A	40A / 32A / 32A / 40A / 32A	
Max. short circuit current for each MPPT	60A / 48A / 48A / 60A	60A / 48A / 48A / 60A / 48A	
No. of MPP trackers	4	5	
Max. input No. per MPPT	2		
Output (AC)			
Rated output power	45kW	50kW	60kW
Max. apparent power	49.5kVA	55kVA	66kVA
Rated AC voltage	220V / 380V 230V / 400V 240V / 415V		
Voltage range	180V ~ 305V / 312V ~ 528V		
Rated AC grid frequency	50Hz / 60Hz		
Grid frequency range	45Hz ~ 55Hz / 55Hz ~ 65Hz		
Max. output current	75.2A	83.6A	95.3A
Adjustable power factor	0.8 (leading) ~ 0.8 (lagging)		
THD at rated output	<3%		
Efficiency			
Max. efficiency	98.6%		
European efficiency	98.3%		
Protection			
DC switch	Yes		
Ground fault monitoring / grid monitoring	Yes		
DC reverse polarity protection	Yes		
AC short-circuit protection	Yes		
Surge protection	DC&AC Type II		
Anti-islanding protection	Yes		
Residual-current monitoring	Yes		
AFCI function	Optional		
General Data			
Dimensions (W / H / D)	670*640*270mm		
Weight	40kg	43kg	
Operating ambient temperature range	-25°C ~ +60°C		
Relative operating humidity (non-condensing)	0% RH ~ 100% RH		
Degree of protection	IP66		
Cooling method	Smart forced air cooling		
Max. operating altitude	4000m		
Night power consumption	<1W		
Topology	Transformerless		
Display	LED Indicators		
Communication interface	RS485 or WiFi or 4G or LAN (Optional)		
DC connection type	MC4 (Max. 6mm²)		
AC connection type	Waterproof Connector (OT/DT Terminal)		
AC cable specification	External diameter 28mm ~ 42mm		
Grid-connection standard	EN 50549-1/2, IEC 61727, IEC 61683, IEC 60068, VDE V 0124-100, VDE-4105/4110, UNE 217001, UNE 217002, TED 749, RD 647, CEI 0-16/21, Compliance with (Greece, Poland, Netherlands)		
Safety standard	IEC/EN 62109-1/-2, IEC 62116		
EMC standard	IEC/EN 61000-6-1/-2/-3/-4, EN 62920, IEC 61000-3-11/12		

TS75/80/100/110KTL-A10

Three-phase On-grid Inverter



High Power Generation

- MPPT current 32A, compatible with all PV modules
- 1.1 times output overload for higher yield



Safe and Reliable

- IP66 protection & C5 anti-corrosion
- Type II of DC&AC Surge protection
- Optional AFCI



Intelligent O&M

- Intelligent strings monitoring
- Remote one-click firmware upgrade
- Intelligent remote monitoring and diagnosis, improving O&M efficiency

Technical Datasheet

Model	TS75KTL-A10		TS80KTL-A10	TS100KTL-A10	TS110KTL-A10
Input (PV)					
Max. input voltage	1100V				
Rated input voltage	630V				
MPP voltage range	200V ~ 1000V				
Start-up voltage	200V				
Max. input current for each MPPT	32A				
Max. short circuit current for each MPPT	48A				
No. of MPP trackers	8		10		
Max. input No. per MPPT	2				
Output (AC)					
Rated output power	75kW	80kW	100kW	110kW	
Max. apparent power	75kVA	88kVA	110kVA	121kVA	
Rated AC voltage	220V / 380V 230V / 400V 240V / 415V				
Voltage range	180V ~ 305V / 312V ~ 528V				
Rated AC grid frequency	50Hz / 60Hz				
Grid frequency range	45Hz~55Hz / 55Hz~65Hz				
Max. output current	114.0A	127.0A	158.8A	174.7A	
Adjustable power factor	0.8 (leading) ~ 0.8 (lagging)				
THD at rated output	<3%				
Efficiency					
Max. efficiency	98.6%				
European efficiency	98.4%				
Protection					
DC switch	Yes				
Insulation resistance detection	Yes				
DC reverse polarity protection	Yes				
AC over-current protection	Yes				
Surge protection	DC&AC Type II				
Anti-islanding protection	Yes				
Residual-current monitoring	Yes				
AFCI function	Optional				
General Data					
Dimensions (W / H / D)	984*640*330mm				
Weight	86kg				
Operating ambient temperature range	-25°C ~ +60°C				
Relative operating humidity (non-condensing)	0% RH ~ 100% RH				
Degree of protection	IP66				
Cooling method	Smart forced air cooling				
Max. operating altitude	4000m				
Night power consumption	<3W				
Topology	Transformerless				
Display	LED Indicators				
Communication interface	RS485 or Wifi or 4G or LAN (Optional)				
DC connection type	MC4 (Max. 6mm²)				
AC connection type	Waterproof Connector + OT/DT Terminal (Max. 240mm²)				
AC cable specification	External diameter 26mm ~ 65mm				
Grid-connection standard	EN 50549-1/2, IEC 61727, IEC 61683, IEC 60068, VDE V 0124-100, VDE-4105/4110, UNE 217001, UNE 217002, TED 749, RD 647, CEI 0-16/21, Compliance with (Greece, Poland, Netherlands)				
Safety standard	IEC/EN 62109-1/-2, IEC 62116				
EMC standard	IEC/EN 61000-6-1/-2/-3/-4, EN 62920, IEC 61000-3-11/12				

T-Link-WiFi-U-100



The T-Link WiFi Stick enables TBEA Xi'an Electric Technology inverters to connect to TB·eSolar Cloud Platform and APP. The inverter and meter data are collected and transmitted to TB·eSolar cloud platform via the internet for simplified, centralized monitoring of PV plants.



Smart

- Intelligent Zero-Export control design



Simple

- Easy to install on site



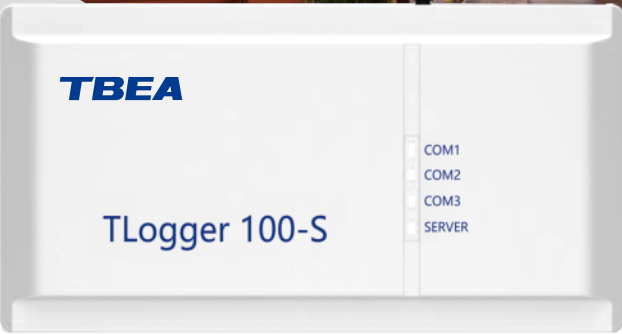
Reliable

- Intelligent to diverse application scenarios

Technical Datasheet

Model	T-Link-WiFi-U-100
Device Management	
Max. Number of Manageable Devices	10
Communication Interface	
LAN	LAN 10 / 100 Mbps
WLAN	2.4GHz 802.11 b/g/n
USB Type A	RS 485
Interaction	
LED	LED Indicator x 2
APP	TB·eSolar APP
Environment	
Operating Temperature Range	-40°C ~ 60°C (-40°F ~ 140°F)
Storage Temperature	-40°C ~ 70°C (-40°F ~ 158°F)
Relative Humidity (Non-condensing)	5% ~ 95%
Max. Operating Altitude	4,000 m (13,123 ft.)
Electrical	
DC Power Supply	5 ~ 12V
Power Consumption	Typical 2 W, Max. 5 W
Mechanical	
Dimensions (W x H x D)	50mm x 34mm x 170mm
Weight	100g
Protection Degree	IP66
Certificate	CE

TLogger 100-S



Tlogger enables TBEA Xi'an Electric Technology inverters to connect to TB·eSolar Cloud Platform. The inverter and meter data are collected and transmitted to TB·eSolar Cloud Platform and APP via the internet for simplified, centralized monitoring of PV plants.

- Smart

 - Intelligent Zero-Export control design
- Simple

 - Easy to install on site
- Reliable

 - Compatible to diverse application scenarios

Technical Datasheet

Model	TLogger 100-S
Device Management	
Max. Number of Management Devices	80
Communication Interface	
LAN	LAN x 1, 10 / 100 / 1000 Mbps, communication distance ≤100m
RS485	COM x 3, communication distance ≤1000 m
Digital Input / Output	DI x 8, DO x 2
Communication Protocol	
LAN	Modbus-TCP
RS485	Modbus-RTU
Interaction	
LED	LED Indicator x 4, COM1~3, LAN
WEB	Embedded Web
USB	USB 2.0 x 1
RST	1
Environment	
Operating Temperature Range	-40°C ~ 60°C (-40°F ~ 140°F)
Storage Temperature	-40°C ~ 70°C (-40°F ~ 158°F)
Relative Humidity (Non-condensing)	5% ~ 95%
Max. Operating Altitude	4,000 m (13,123 ft.)
Electrical	
DC Power Supply	12 V ~ 24 V / 2 A
Power Consumption	Typical 8 W, Max. 15 W
Mechanical	
Dimensions (W x H x D)	240 mm x 126 mm x 42 mm
Weight	453g
Protection Degree	IP20
Installation Options	Wall Mounting, DIN Rail Mounting, Tabletop Mounting

H1-EU07/11/22-C EV Charger



Powerful & durable EV Charger, intelligent and flexible for various applications: public, fleets, retail & destination, workplace, and home.

- Built-in energy meter
 - Multiple Network Connection
 - Charger Management Platform
- Ip65 Protection
 - Type A + DC 6mA
 - Shutter Socket Available

Technical Datasheet

Model	H1-EU07-C	H1-EU11-C	H1-EU22-C
Power Specification			
AC Power input rating	230VAC (1-Phase)	400VAC(3-Phase)	
Rated frequency	50/60Hz	50/60Hz	50/60Hz
Output current	32A	16A	32A
Output power	7kW	11kW	22kW
Connector type	Type2 socket / 5m cable		
Metering			
Metering	Built-in energy meter		
Measuring Accuracy	Class 1.0/B		
User Interface & Control			
Charging control	Plug and Charge, RFID Card or Mobile APP		
Internet connection	WiFi		
External communication	RS485		
OCPP protocol	OCPP 1.6J		
Environmental			
Storage temperature	-30~85°C		
Operating temperature	-30~50°C		
Operating humidity	5% RH ~95% RH (no condensation)		
Altitude	≤2000m		
Cooling method	Natural Cooling		
Material	PC+ASA		
Protection			
IP Rating	IP65 (Cable version)		
Leakage protection	Type A+DC 6mA		
Electrical protection	Over/Under-voltage Protection, Over-load Protection, Short-circuit Protection, Short Circuit Protection, Earth Leakage Protection, Ground Protection, Over-temp Protection, Surge Protection		

TB·eSolar Cloud Platform



Leveraging IoT technology and a robust big data center, the TB·eSolar Intelligent Energy Management Platform ensures system security while integrating seamlessly with mainstream PV system devices. It offers real-time power monitoring, detailed diagnostics, proactive fault alarms, and efficient O&M management. With its visual management interface, TB·eSolar elevates intelligent operation and maintenance for distributed power stations, setting a new standard in energy management.



Comprehensive Integration with C&I PV Station Equipment

TB·eSolar seamlessly connects with all distributed PV components, including inverters, smart meters, environmental monitoring devices.



Real-Time Fault Alerts with Immediate Solutions

Armed with an embedded fault knowledge base, TB·eSolar delivers real-time alerts for device issues alongside corresponding solutions, optimizing O&M activities.



Unified Online and Offline O&M through Regional Control Hubs

The creation of regional control hubs enhances TB·eSolar's fault early warning capabilities, significantly improving the intelligent management of PV stations.



Secure Cloud Deployment with Multilingual Capabilities

Deployed on both Alibaba Cloud and Amazon Web Services (AWS) for scalability, security, and high performance, TB·eSolar supports multiple languages, including Chinese, English, Spanish, Portuguese, and more.



In-Depth Multi-Level Analysis

TB·eSolar offers detailed daily, weekly, and annual reports, delivering insights into station performance, equipment efficiency, power generation losses, and actionable recommendations.

Unified Data Center

- Establish a centralized data center by aggregating information from all PV stations, providing essential data support for business applications.

Integrated O&M Control Center

- Centrally manage patrols, maintenance, defect elimination, and inspections, enabling remote control and streamlined O&M.

Operation Monitoring Center

- Display real-time status across all PV stations, ensuring safety and stability in operations.

Operation Analysis Center

- Perform multi-dimensional statistical analysis of O&M conditions to support daily decision-making.

C&I References



Industrial Park



Commercial Park



Logistics Park



Track Traffic



Farm



Linyi, Shandong



Yangling, Shaanxi

State Grid High-Resilience Cluster Distributed PV Power Generation Demonstration Project

In collaboration with State Grid, Tsinghua University and Shandong University, TBEA Xi'an Electric Technology has conducted research application project on issues of adaptive control of distributed PV on-grid power, supporting grid capabilities and improving power supply quality.

This project adopted TBEA Xi'an Electric Technology new generation of distributed inverters, which have a communication speed more than 100 times faster than traditional ones, enhancing grid stability.

Model	TS150KTL
Capacity	5.7MW
Installation Time	2024

Yangling Demonstration Zone- PV ESS Intelligent Zero-Carbon Integrated Energy Project

As the first comprehensive energy demonstration project of China Huadian, TBEA Xi'an Electric Technology successfully built a PV ESS Charging intelligent energy system. The project Made full use of the rooftops and roads in the industrial park to build DG system, electrochemical ESS, and EV charging piles as well as a multi-energy complementary smart energy network.

With TBEA Xi'an Electric Technology 150kW PV inverter, the project prompts power station moving towards unmanned driving. Futhermore, the ultra-high power generation enables customers to increase income, and the ultimate reliability ensures the stable operation of the power station.

Model	TS150KTL
Capacity	1.6MW
Installation Time	2025

Residential References



Sunlight Room



Villa



Flat Roof



Slope Roof



Baotou, Inner Mongolia

Inner Mongolia Technology Distributed PV Power Project

Located at the southern end of the Inner Mongolia Plateau, Baotou is the largest city as well as the largest industrial city in Inner Mongolia, where the lowest temperature throughout the year can reach below -30°C.

TBEA Xi'an Electric Technology distributed PV inverter ensures the stable operation of the project in extremely cold environment, generating green energy for local area.

Model	TS40KTL-A2
Capacity	45.1kW
Installation Time	2024



Huaibei, Anhui

Anhui Huaibei Residential PV Power Project

Residential rooftop scenarios are complex and diverse- the area is limited, full of multi-orientations and common shadings by equipment and trees.

TBEA Xi'an Electric Technology distributed PV inverters provide multi-channel MPPTs with long/short-string design, adapted to various roof orientations. This flexible utilization can maximize the installation capacity and increase power generation revenue.

Model	TS30KTL-A2
Capacity	36.3kW
Installation Time	2024