

Residential ESS Solution



TBEA Xi'an Electric Technology Co., Ltd.

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☑ No. 70, Shanglinyuan 4th Road, High-tech Development Zone, Xi'an, Shaanxi, China



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 al designed capac

otal 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

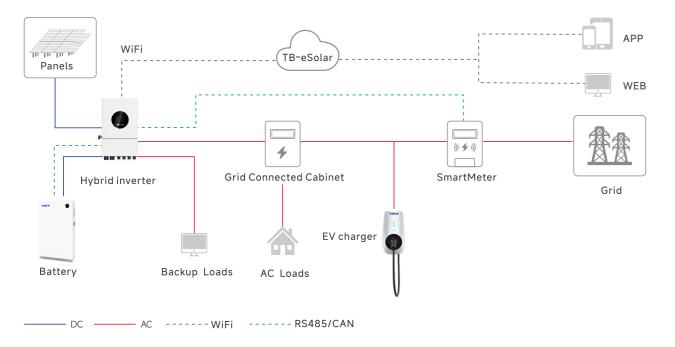
100 GW
Cumulative global





Residential Solution

System Topology



Solution Features



Best Benefits

- Wide range working voltage
- Multi-channel MPPT design multi-orientation adaptation higer generation revenue
- 24h power supply



Always Reliable

• Ip66, rodust environment adaptability



Intelligent Friendly

- Intelligent energy management platform
- improving O&M effiency

Application Scenarios





Increase renewable energy access capacity



24-hour intelligent energy management



Promotion renewable energy consumption





Increase renewable energy access capacity



24-hour intelligent energy management



Promotion renewable energy consumption



TH4/5/6/8K-SLA01

Single Phase Hybrid Inverter Operation With Low-voltage Battery



① High Power Generation

- 60V start-up voltage
- Wide range of MPPT voltage

Safe and Reliable

- <10ms UPS-level switching
- Easy setting of smart working modes

♣ Intelligent O&M

- Remote diagnosis & update
- 24-hour intelligent energy management

Technical Datasheet

	TH4K-SLA01	TH5K-SLA01	TH6K-SLA01	TH8K-SLA01					
			put DC						
fax.input power	8kW	10kW	12kW	16kW					
fax.input voltage			550V						
ated voltage			360V						
tart-up voltage			60V						
IPPT voltage range		Ç	90-450V						
fax.input current									
				32A/32A					
lax.short circuit current		20A/20A		40A/40A					
IPPT number		2		2					
ax. input strings number	2 2								
J			t Dattama						
			it Battery						
attery type	Li-ion/Lead-acid								
attery Voltage Range		40-60V							
umber of battery input channels	40-607								
ax. charge / discharge current			190A						
ommunication		CA	N/RS485						
harging Strategy for Li-Ion Battery		Self-ada	aption to BMS						
,									
			AC (Grid side)						
ated output power	4kW	5kW	6kW	8kW					
lax. apparent output power	4.4kVA	5.5kVA	6.6kVA	8.8kVA					
				34.8A					
ax. rated current	17.4A	21.7A	26.1A						
ax. output current	19.1A	23.9A	28.7A	38.3A					
rid voltage range			160-300V						
		4.841	PE,220V/230V						
ated grid voltage									
ated grid frequency			50Hz/60Hz						
ower Factor		>0.99 (0.8	leading 0.8 lagging)						
		3.,, (6.6)							
HDi			<3%						
		Input A	C (Grid side)						
ated input power	4kW	5kW	6kW	8kW					
	6.9kW	6.9kW	9.2kW	11.5kW					
ax. input power									
ax. apparent output power	6.9kVA	6.9kVA	9.2kVA	11.5kVA					
lax. input current	30A	30A	40A	50A					
ated input voltage									
	1/N/PE,220V/230V								
ated input frequency	50Hz/60Hz								
		Output	AC (Back-up)						
ated output power	4kW	5kW	6kW	8kW					
ax. output current	19.1A	23.9A	28.7A	38.3A					
ax.output power		2 times of	rated power, 10s						
ack-up switch time			≤4ms						
ated output voltage	220V/230V								
ated frequency	50Hz/60Hz <3% Effciency								
HDv									
1104									
flax.efficiency	97.70%								
U efficiency			96.70%						
			99.80%						
1PPT Efficiency									
		Pro	otection						
ntegrated DC switch			Yes						
C rever-polarity protection									
	Yes								
nti-islanding protection			Yes						
hort circuit protection			Yes						
utput over current protection									
			Yes						
			Yes Type II						
C Surge protection									
C Surge protection C Surge protection			Type II Type II						
C Surge protection C Surge protection sulation impedance detection			Type II Type II Yes						
C Surge protection C Surge protection sulation impedance detection round Fault Monitoring			Type II Type II Yes Yes						
C Surge protection C Surge protection sulation impedance detection round Fault Monitoring			Type II Type II Yes						
C Surge protection C Surge protection sulation impedance detection round Fault Monitoring ssidual leakage current detection			Type II Type II Yes Yes Yes						
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C Surge protection C Surge protection sulation impedance detection round Fault Monitoring seidual leakage current detection emperature protection C Over voltage Protection C Over current Protection I-hour load monitoring			Type II Type II Yes Yes Yes Yes Yes Yes Yes Yes Yes						
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C Surge protection C Surge protection Sulation impedance detection Sulation impedance detection Sulation impedance detection Substitution of the s		Gen 350*\$	Type II Type II Yes						
Surge protection Surge protection Surge protection Sulation impedance detection sound Fault Monitoring sisidual leakage current detection mperature protection Cover voltage Protection Over current Protection -hour load monitoring stitbackflow rallel mensions (W*H*D) eight aff consumption(night) (Rated voltage) perating temperature range		Gen 350*8	Type II Type II Yes						
C Surge protection C Surge protection Usulation impedance detection Sudation impedance detection Sudation impedance detection Substitute of the substitute o		Gen 350*8	Type II Type II Yes						
Surge protection Surge protection Surge protection Surge protection Sulation impedance detection Sund Fault Monitoring Sisidual leakage current detection Surge protection Over voltage Protection Over voltage Protection Over current Protection Over current Protection Over surgent Protection Surgent Sur		Gen 350*5 -40 Smart fr	Type II Type II Yes						
Surge protection Surge protection Sulation impedance detection round Fault Monitoring sidual leakage current detection mperature protection Over voltage Protection Over current Protection Hour load monitoring stibackflow rallel mensions (W*H*D) eight elf consumption(night) (Rated voltage) poerating temperature range pooling concept ax. operation altitude		Gen 350*5 -40 Smart f	Type II Type II Yes						
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C Surge protection C Surge protection Sulation impedance detection round Fault Monitoring seidual leakage current detection reperature protection C Over voltage Protection C Over current Protection I-hour load monitoring stibackflow smallel immensions (W"H"D) leight elf consumption(night) (Rated voltage) perating temperature range pooling concept ax. operation altitude slative humidity gress protection opology Structure rid connection stadard offety/EMC standard per of DC terminal stery connection type per of AC terminal (Back-up)		Gen 350*s -40 Smart fr (Trans IEC 61727,IEC IEC/EN 61000-6-1/3, IEC/E MC4 I T T Display&C	Type II Type II Yes						



TH5/6/8/10/12K-TLA01

Three Phase Hybrid inverter
Operation With Low-voltage Battery



① High Power Generation

- 160V start-up voltage
- Wide range of MPPT voltage

Safe and Reliable

- <4ms UPS- level switching
- Easy setting of smart working modes

♣ Intelligent O&M

- Remote diagnosis & up date
- 24-hour intelligent energy management

Technical Datasheet

Model	TH5K-TLA01	TH6K-TLA01	TH8K-TLA01	TH10K-TLA01	TH12K-TLA01	
			Input DC			
Max.input power	7.5kW	9kW	12kW	15kW	18kW	
Max.input voltage			1000V			
Rated voltage			600V			
Start-up voltage			160V			
MPPT voltage range			170-900V			
Max.input current		/16A		26A/26A		
Max.short circuit current		/20A		32A/32A		
MPPT number		2		2		
Max. input strings number		2		4		
			Input Battery			
Battery type			Li-ion/Lead-acid			
Battery Voltage Range			40-60V			
Number of battery input channels	4004 4004		1		050410504	
Max. charge / discharge current	120A/120A	145A/145A	190A/190A CAN/RS485	210A/210A	250A/250A	
Communication Charging Strategy for Li-Ion Battery			Self-adaption to BMS			
Charging Strategy for Er fort battery			Output AC (Grid side)			
Rated output power	5kW	6kW	8kW	10kW	12kW	
Max. apparent output power	5kVA	6kVA	8kVA	10kVA	12kVA	
Max. rated current	7.6A	9.1A	12.1A	15.2A	18.2A	
Max. output current	7.6A	9.1A	12.1A	15.2A	18.2A	
Grid voltage range	7.0A		-288V(Phase voltage),286-498V(Line vo		10.21	
Rated grid voltage		100	220V/380V,230V/400V,3/N/PE	Jilage/		
Rated grid frequency			50Hz/60Hz			
Power Factor			>0.99 (0.8 leading 0.8 lagging)			
THDi			<3%			
			Input AC (Grid side)			
Rated input power	5kW	6kW	8kW	10kW	12kW	
Max. input power	10kW	12kW	16kW	20kW	24kW	
Max. apparent output power	10kVA	12kVA	16kVA	20kVA	24kVA	
Max. input current	15 . 2A	18.2A	24.2A	30.3A	36.4A	
Rated input voltage			220V/380V,230V/400V,3/N/PE			
Rated input frequency			50Hz/60Hz			
			Output AC (Back-up)			
Rated output power	5kW	6kW	8kW	10kW	12kW	
Max.output current	7.6A	9 <u>.</u> 1A	12.1A	15.2A	18.2A	
Max.output power	2 times of rated power,10s					
Back-up switch time			≤4ms			
Rated output voltage	220V/380V,230V/400V,3/N/PE					
Rated frequency	50Hz/60Hz					
THDv			<3%			
N. C.			Efficency			
Max.efficiency	97.34%					
EU efficiency			96.45%			
MPPT Efficiency			99.80%			
Integrated DC quitels			Protection			
Integrated DC switch DC rever-polarity protection			Yes			
Anti-islanding protection	Yes Yes					
Short circuit protection						
Output over current protection		Yes				
DC Surge protection	Yes Type II					
AC Surge protection	Type II					
Insulation impedance detection	Type II					
Ground Fault Monitoring	Yes Yes					
Residual leakage current detection		Yes Yes				
Temperature protection	Yes					
LVRT	Yes					
AC Over voltage Protection	Yes					
DC Over current Protection	Yes					
24-hour load monitoring	Yes					
Antibackflow	Yes					
Parallel	Yes					
			General Data			
Dimensions (W*H*D)			370*650*262mm			
Weight			35kg			
Self consumption(night) (Rated voltage)	<20W					
Operating temperature range	-40 to +60°C					
Cooling concept	Smart forced air Cooling					
Max. operation altitude	4000m					
Relative humidity	0-100%					
Ingress protection			IP66			
Topology Structure			Transformerless			
Grid connection stadard		IEC 61727,IEC 62116,IEC 61683				
Safety/EMC standard		IEC/EN 62109-1/2 IEC/EN 61000-6-1/3				
Type of DC terminal		MC4 (Max. 6mm²)				
	Terminal					
Battery connection type						
Battery connection type Type of AC terminal (Back-up)			Terminal			
Battery connection type Type of AC terminal (Back-up)			Terminal Terminal			
Battery connection type Type of AC terminal (Back-up) Type of AC terminal (Grid side)			Terminal Terminal Display&Communication			
Battery connection type			Terminal Terminal			



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 Parameters

Model	H1-EU07-C	H1-EU11-C	H1-EU22-C			
	Power Specification					
AC Power input rating	230VAC(1-Phase)	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	Build-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, 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, TBeSolar 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.

S 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.



Application Case











Sunlight Room



Villa

Flat Roof

Slope Roof

















Shandong Residential Project