

tkt EV solution

INTELLIGENT CHARGE OVERALL SOLUTION

TKT Smart EV Chargers

www.busthermo.com / www.tkthvac.com / www.tktev.com



Established

2014

Investment funds

200 million yuan

New energy vehicles

**Charging equipment
manufacturer**

Luoyang Thermo Kingtec Auto Tech. Co., Ltd., established in 2014 and headquartered in Luoyang City, Henan Province, is a high-tech enterprise focusing on the research and development, production, sales and service of new energy electric vehicle charging equipment products.

The company has an investment capital of 200 million yuan, covers an area of 20 acres, and has a factory area of 8,200 square meters. At present, it has developed a variety of products such as DC Charger series, AC Charger series, High Power DC Charger, and fully Liquid-Cooled Fast DC Charger. It has obtained more than 100 patent authorizations and software copyrights, and has established long-term supporting cooperative relationships with well-known domestic and foreign companies such as BYD Auto, Yutong Bus, ZeroNox Inc, Fentons Hayleys, Cimex Inc Pvt Ltd, Bondstein Technologies Limited, etc.

Development history of TKT chargers



01 **The first generation DC chargers in 2014**

02 **2016 second generation DC chargers**

03 **2018 third generation DC chargers**

04 **2023 fourth generation DC chargers-
high power fast charging**

Certificates



R&D testing

Professional R&D team

- Hardware
- Software
- Platform

Parts and complete charger testing

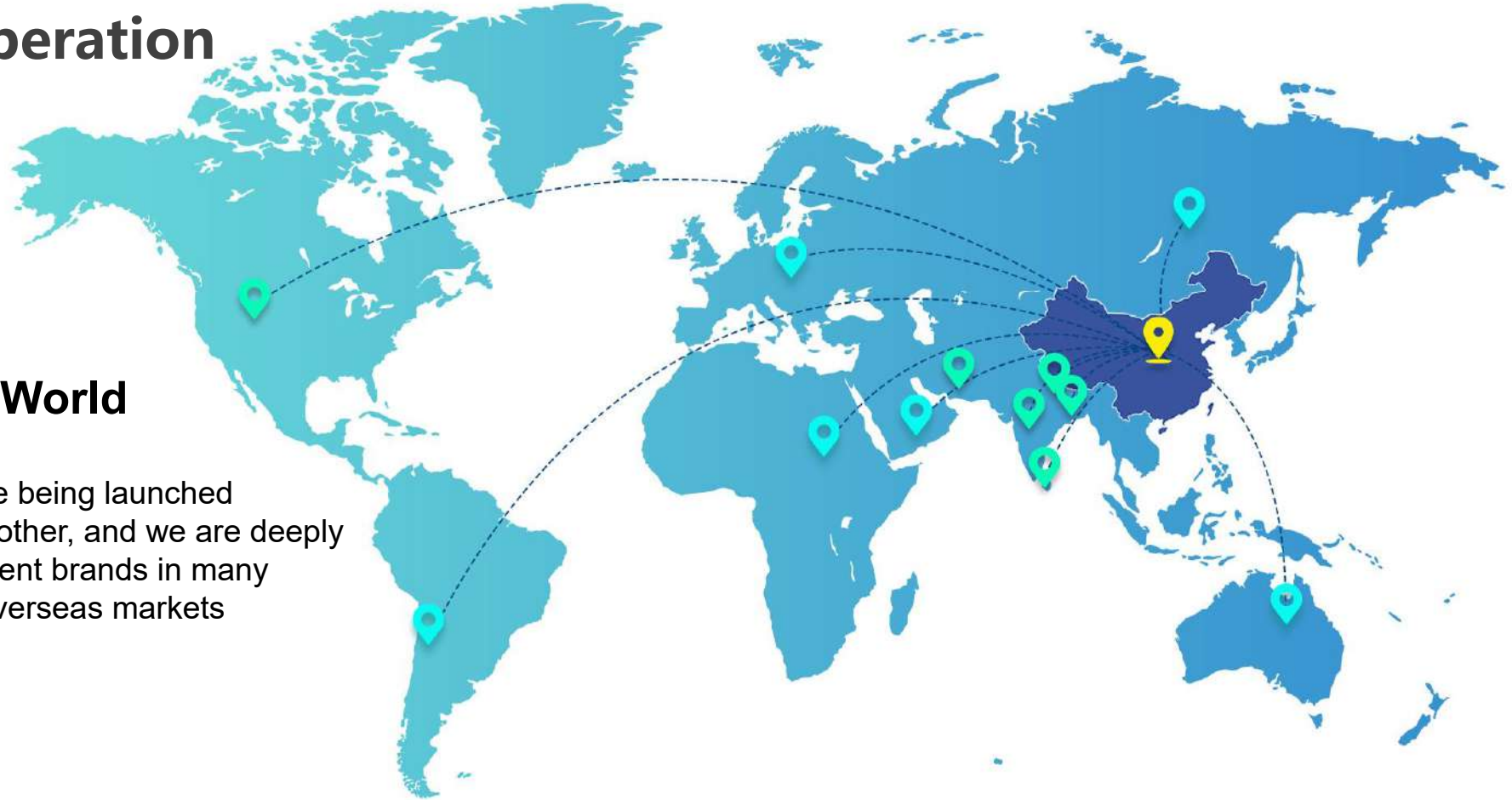
- Waterproof test system
- High and low temperature test chamber
- Intelligent battery simulator
- Simulated real vehicle charging test
- Emergency stop trigger test
- Insulation resistance test
- Withstand voltage test
- Blind charge test
- Full load test
- Door opening detection trigger test



Brand Cooperation

TKT Charging World

Currently, products are being launched overseas one after another, and we are deeply cooperating with different brands in many countries to expand overseas markets



DISPLAY OF SOME STRATEGIC PARTNERS





Factory chargers production line



- DC chargers production line
- AC chargers production line



Factory Intelligent Production Management System

Quality management: Ensure product quality meets standards by recording and analyzing various parameters in the production process.

Full tracking: Track and manage the entire process from order to delivery to improve service levels.

Plan generation: Automatically generate the optimal production plan based on order requirements and resource capabilities.

Dynamic adjustment: In the face of emergencies, such as equipment failure or order changes, the system can quickly adjust the plan.

Capacity analysis: Evaluate and analyze the factory's capacity to make the most of resources.

After-sales Service

Local Service Center

- Localization service center provides professional personnel

Engineer visits + local spare parts

- Professional engineers provide on-site service

24-hour online technical support and remote guidance

- Online technical guidance from professionals

Remote Services

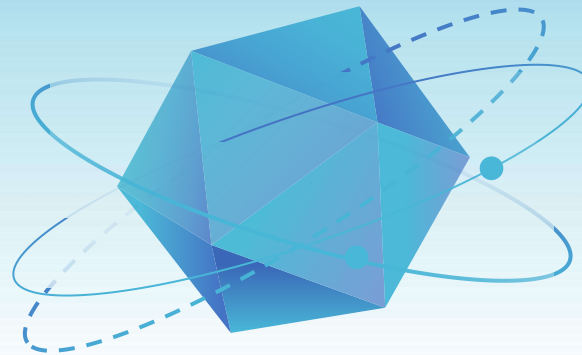
- Online support
- Remote service
- Remote diagnosis
- Remote firmware upgrade

Field Service and Parts Supply

- Standard warranty execution
- Extended warranty options
- Preventive maintenance
- Spare parts program

Training

- Standardized online training
- Customized service training
- Third-party service training program
- Customized software service





Application



TKT Smart EV Chargers



Features

Intelligent identification, efficient charging, safe and reliable, easy to manage. It can be controlled remotely, has wide application, fast response speed and easy installation.



Technological Innovation

We adopt leading domestic and foreign technologies and materials to maintain our leading position in the market.



Application Scope

Electric buses, Electric trucks, New energy cars and other types of vehicles
Large shopping malls, Stations, Parking lots and other places.

TKT-EV Chargers Series

Our products include smart DC chargers, AC chargers, high power chargers and fast chargers. Including column type, wall-mounted type, two outlet, three-in-one design, four-outlet, etc.

DC charging power range is from 30kW to 320kW, AC charging power range is from 7kW to 22kW, overcharging power range is from 360kW to 960kW, supporting CCS2 /CHAdeMO /GBT standards. This is enough to meet the needs of different regions, different prices, and different scenarios, and can meet the needs of all electric buses, trucks, and household vehicles. Due to its small size, it can be widely built in bus stations, large parking lots, etc. TKT has long-term and good cooperative relations with BYD Auto, Tata Motors and Yutong Bus.

TKT EV Chargers DC Series



**Two Outlet DC Charger
(CCS2/GBT)**



**Two Outlet DC Fast Charger
(GB/T-CCS2)**



**Two Outlet DC Supercharger
(GBT/CCS2)**

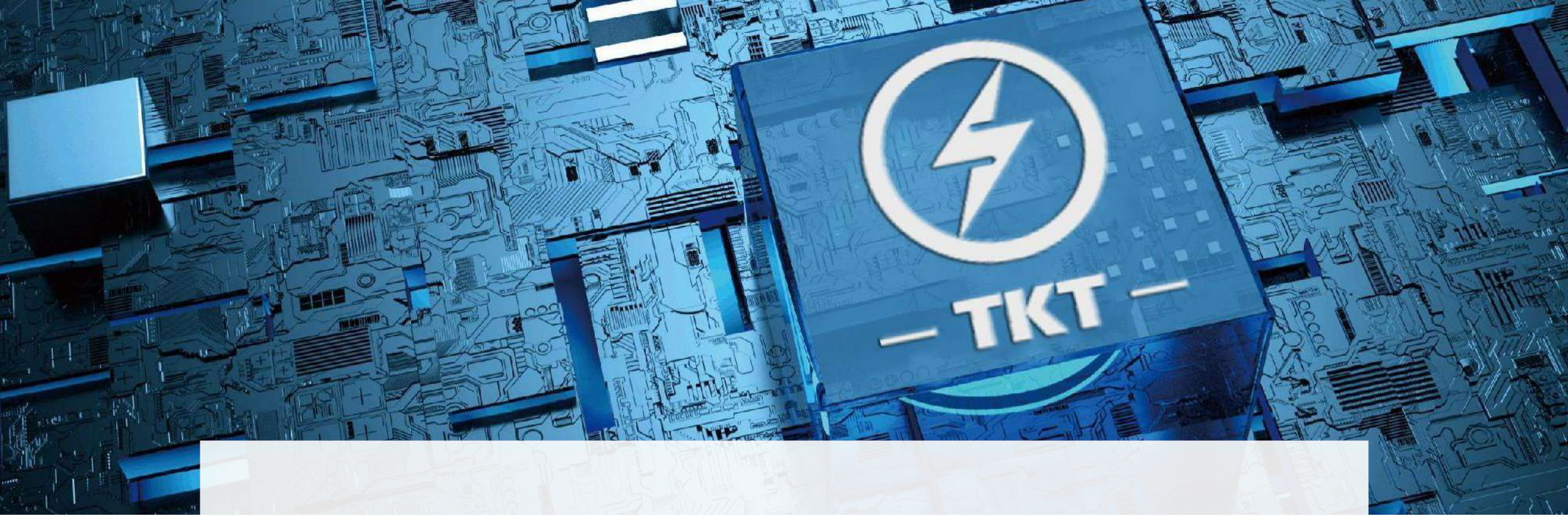


THREE-IN-ONE DC Charger



**Wallbox/Floor Stand
DC Charger**

- Applications: Highways, City centers, Commercial fleets, Public transportation, Charging stations, etc.
- Output power: 30kW~320kW
- Connector standards: CCS2/GBT/Optional
- Advantages: Dynamic load balancing, Modular design, 100+ patents, IP54, Customization, etc.
- Minimum voltage requirement: 400V (Input Side)
- Quality certification: ISO9001, IATF16949, ARAI, NTC CE, etc.



TWO Outlet DC Charging Series



TWO Outlet DC Charger Series



- The modular design makes it easy to expand and maintain, and supports remote monitoring and online upgrades, providing ultra-high security and reliability.
- It can realize fast charging with a single output, and can also simultaneously charging with two outputs.
- It is widely used in large bus parking lots, expressway service areas, urban public parking lots and other scenes in Europe and other countries.





Product parameter



Item	Power	120kW	160kW	180kW
Input	Input Voltage	400V±15%		
	Input Voltage Type	TN-S(Three Phase Five Wire)		
	Working Frequency	45~65HZ		
	Power Factor	≥0.99		
	Efficiency	≥94%		
Output	Output Voltage	150V-1000V DC		
	Max Output Current	400A	500A	500A
	Output Connectors	CCS2 / GBT / Optional		
Interface	Display	8" LCD Touch Screen		
	Payment	Mobile APP / RFID		
Communication	Network Connection	4G/LAN		
	Communication Protocos	OCPP1.6J		
Working Environment	Working Temperature	-30°C~+50°C		
	Storage Temperature	-35°C~+55°C		
	Operating Humidity	≤95% Non-Condensing		
	Protection	IP54		
	Cooling Method	Forced Air-Cooling		
Safety Protection	Multiple Protection	Short circuit, Overvoltage, Surge resistance, etc.		
	Push Buttons	Emergency Stop		
Mechanical	Dimension(W x L x H)	868mm*600mm*1838mm		
	Cable Length	5m/7.5m		
	Charging Outlet	2		
Regulation	Certificate	IEC61851		
	Application	Highways, Urban Centers, Commercial Fleets, Public Transportation, Charging Stations		

Product Feature



• Compatible with OCPP1.6J open charging protocols.

• CE certificate, compatible with the latest DIN70121 communication protocol.

• Integrated with Ethernet and 4G communication, the cloud platform service system realizes functions such as charging, settlement, report statistics, equipment maintenance, remote monitoring and management, etc.

• The mobile App can realize positioning, navigation, reservation, scanning QR code charging, real-time query and other functions, and support Credit card, Paypal and other payment methods.

• Perfect electrical safety design, with timing, real-time detection safety protection, equipment abnormal pre-diagnosis, alarm feedback, BMS independent safety protection and other functions.

• IP54 protection grade, moisture-proof, shockproof, dust-proof, flame retardant. With over temperature protection, overload protection, short circuit protection, leakage protection, battery anti-reverse connection and other protection functions.

• Humanized design, The head of charging output is equipped with an electronic lock to prevent the head from pulling out at random during charging to ensure personal safety.

TWO Outlet DC Fast Charger - 240kW



- The modular design makes it easy to expand and maintain, and supports remote monitoring and online upgrades, providing ultra-high security and reliability.
- Dynamic Load Balancing: improve charging efficiency and EV charger utilization.
- More reasonable appearance design: The charging cable is designed upward to improve waterproof performance, reduce cable drag, extend the service life of the charging cable, and be safer. The high-voltage DC output part is located on the upper part of the charger to reduce water contact and reduce the risk of electric shock.
- It can realize fast charging with a single output, and can also simultaneously charging with two outputs.
- It is widely used in large bus parking lots, expressway service areas, urban public parking lots, Pier, port and other scenes in Europe and other countries.





Product parameter



Item	Power	240kW	
Input	Input Voltage	400V±15%	
	Input Voltage Type	TN-S(Three Phase Five Wire)	
	Working Frequency	45~65HZ	
	Power Factor	≥0.99	
	Efficiency	≥94%	
Output	Output Voltage	150-1000V DC	
	Max Output Current	700A	
	Output Connectors	CCS2 / GBT / Optional	
Interface	Display	8" LCD Touch Screen	
	Payment	Mobile APP / RFID	
Communication	Network Connection	4G/LAN	
	Communication Protocos	OCPP1.6J	
Working Environment	Working Temperature	-30°C~+50°C	
	Storage Temperature	-35°C~+55°C	
	Operating Humidity	≤95% Non-Condensing	
	Protection	IP54	
	Cooling Method	Forced Air-Cooling	
Safety Protection	Multiple Protection	Short circuit, Overvoltage, Surge resistance, etc.	
	Push Buttons	Emergency Stop	
Mechanical	Dimension(W x L x H)	873mm*664mm*1842mm	
	Cable Length	5m/7.5m	
	Charging Outlet	2	
Regulation	Certificate	IEC61851	
	Application	Highways, Urban Centers, Commercial Fleets, Public Transportation, Charging Stations	

TWO Outlet DC Super Charger - 320kW



- The modular design makes it easy to expand and maintain, and supports remote monitoring and online upgrades, providing ultra-high security and reliability.
- Dynamic Load Balancing: improve charging efficiency and EV charger utilization.
- It can realize fast charging with a single output, and can also simultaneously charging with two outputs.
- It is widely used in large bus parking lots, expressway service areas, urban public parking lots, Pier, port and other scenes in Europe and other countries.





Product parameter



Item	Power	320kW	
Input	Input Voltage	400V±15%/440V±15%/480V±15%	
	Input Voltage Type	TN-S(Three Phase Five Wire)	
	Working Frequency	45~65HZ	
	Power Factor	≥0.99	
	Efficiency	≥94%	
Output	Output Voltage	150-1000V DC	
	Max Output Current	CCS2 350A;GBT 300A	
	Output Connectors	CCS2 / GBT / Optional	
Interface	Display	8" LCD Touch Screen	
	Payment	Mobile APP / RFID	
Communication	Network Connection	4G/Ethernet	
	Communication Protocos	OCPP1.6J	
Working Environment	Working Temperature	-30°C~+50°C	
	Storage Temperature	-35°C~+55°C	
	Operating Humidity	≤95% Non-Condensing	
	Protection	IP54	
	Cooling Method	Forced Air-Cooling	
Safety Protection	Multiple Protection	Short circuit, Overvoltage, Surge resistance, etc.	
	Push Buttons	Emergency Stop	
Mechanical	Dimension(W x L x H)	960mm*750mm*2000mm	
	Cable Length	5m/7.5m	
	Charging Outlet	2	
Regulation	Certificate	IEC61851	
	Application	Highways, Urban Centers, Commercial Fleets, Public Transportation, Charging Stations	

THREE-IN-ONE DC Charger

- The modular design that makes it easy to expand and maintain, and supports remote monitoring and online upgrades, providing ultra-high security and reliability.
- It can realize fast charging and recharge for a single output, and can also meet the requirements of simultaneous and average power charging for two outputs.
- Support DC Type1, Type2, Type3, DC CCS, GB/T cable and Schuko socket and charging for four vehicles at the same time.

3 OUTPUTS

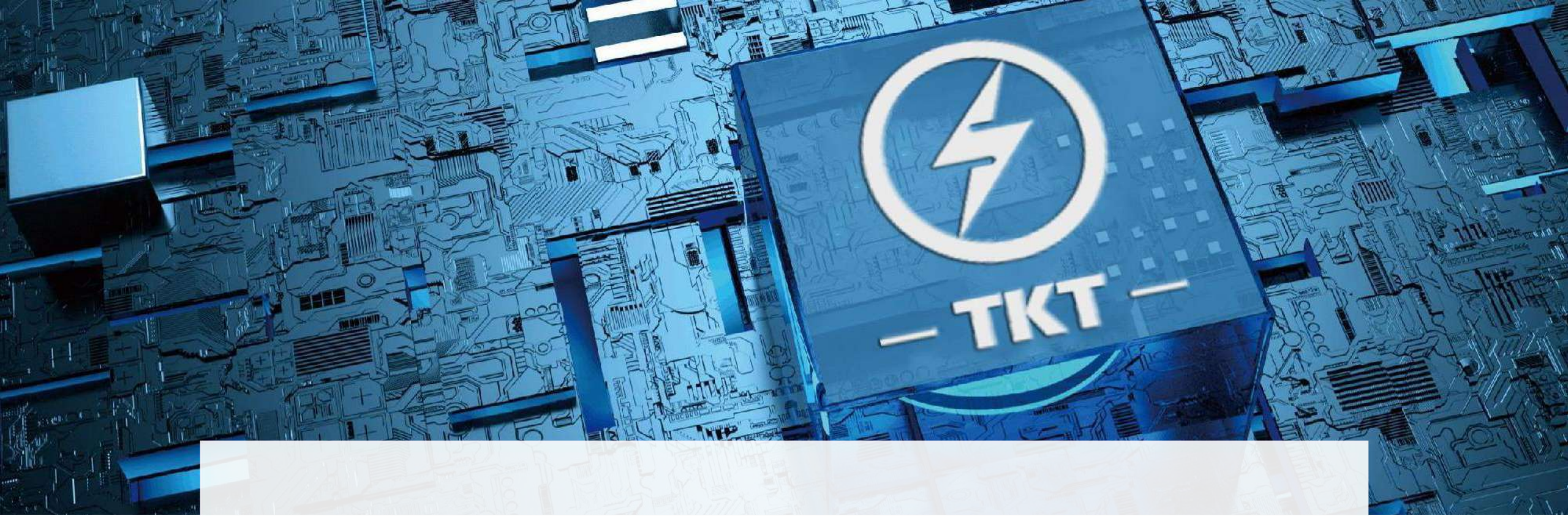




Product parameter



Item	Power	TKT-240kW-THREE-IN-ONE
	Max Power of DC-1	80kW
	Max Power of DC-2	80kW
	Max Power of DC-3	240kW
Input	Input Voltage	3P+N+PE 400V+15% AC
	Input Voltage Type	TN-S(Three Phase Five Wire)
	Working Frequency	45~65HZ
	Power Factor	≥0.99
	Efficiency	≥94%
Output	Output Voltage	150-1000V DC
	Output Current	Single gun MAX 300A/ Total MAX 800A
	Output Connectors	CCS2 / GB/T/ Optional
Interface	Display	8" LCD Touch Screen
	Payment	Mobile APP / RFID
Communication	Network Connection	4G/Ethemet
	Communication Protocos	OCPP1.6J
Working Environment	Working Temperature	-30°C~+50°C
	Storage Temperature	-35°C~+50°C
	Operating Humidity	≤95% Non-Condensing
	Protection	IP54
	Cooling Method	Forced Air-Cooling
Safety Protection	Multiple Protection	Short circuit, Overvoltage, Surge resistance, etc.
	Push Buttons	Emergency Stop
Mechanical	Dimension(W x L x H)	1600*687*477mm
	Cable Length	5m/7.5m
	Charging Outlet	3
Regulation	Certificate	TUV CE CE Certificate: IEC61851-1,IEC 61851-21-2,EN61851-23
	Application	Highways, Urban Centers, Commercial Fleets, Public Transportation, Charging Stations



Wallbox/Floor Stand DC Charger



Wallbox/Floor Stand DC Charger

- Adopting 30kW 1000V charging module and widely applied in electric vehicles.
- With compact design and elegant cabinet, supports wall mounted and pole mounted.
- Widely applied in supermarkets, shopping centers, hotels, parking lots, real estate, car dealerships and other service centers.



Product Feature

Feature

1 • With OCPP integrated, the charger can be easily connected to our cloud charging management system for easy operation, online payment, monitoring, and maintenance.

2 • Support RFID card reader for user authentication; 8" LCD touch screen & user-friendly interface.

3 • Support wired 4G/LAN.

4 • Support OCPP 1.6J .



Product parameter



Item	Power	30kW	60kW
Input	Input Voltage	400V ±15% AC	
	Input Voltage Type	TN-S(Three Phase Five Wire)	
	Working Frequency	45~65HZ	
	Power Factor	≥0.99	
	Efficiency	≥94%	
Output	Output Voltage	150-1000V DC	
	Max Output Current	100A	200A
	Output Connectors	CCS / CHAdeMO / GB/T Optional	
Interface	Display	8" LCD Touch Screen	
	Payment	Mobile APP / RFID	
Communication	Network Connection	4G/Ethernet	
	Communication Protocos	OCPP1.6J	
Working Environment	Working Temperature	-30°C~+50°C	
	Storage Temperature	-35°C~+55°C	
	Operating Humidity	≤95% Non-Condensing	
	Protection	IP54	
	Installation	Floor Stand / Wallbox	
	Cooling Method	Forced Air-Cooling	
Safety Protection	Multiple Protection	Short circuit, Overvoltage, Surge resistance, etc.	
	Push Buttons	Emergency Stop	
Mechanical	Dimension(W x L x H)	886mm*357mm*1686mm	
	Cable Length	5m	
	Charging Outlet	1	2
Regulation	Application	Highways, Urban Centers, Commercial Fleets, Public Transportation, Charging Stations	
Warranty		24 months after delivery	



AC Charger Series



TKT EV Chargers AC Series



Customizable colors



Pole-mount

Wallmount

The product has beautiful design and easy wiring. The charging process can be monitored and controlled through the mobile app. Support dynamic load balancing and energy management. User authentication via RFID, smartphone app. The charging mode can be selected according to different needs. Charging mode can charge until fully charged or charge according to time. Supports wireless 4G and wired networking functions, and can be operated online with mobile App or ocpp platform.



·Extra large screen



·Small and light



·Safety protection



·IP65 waterproof



·Easy to install

- Scope of Application: Residential Areas, Companies, Commercial places, Public parking lots, etc.
- Output Power: 7KW~22KW
- Minimum Voltage Requirement: 230V (Input Side)
- Connector Standards: J1772 Type 1 / Mennekes Type 2 / CHAdeMO Type 1 / GBT (meets 99% EV)
- Quality Certification: CE, ISO9001, etc.



Product parameter

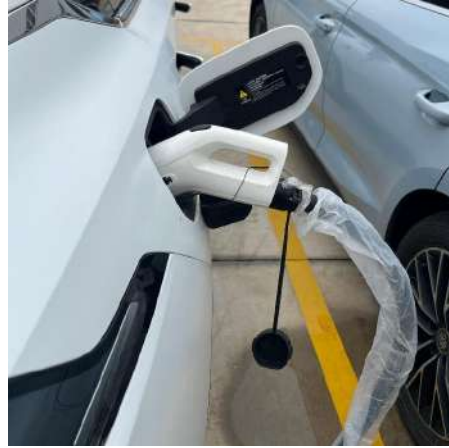


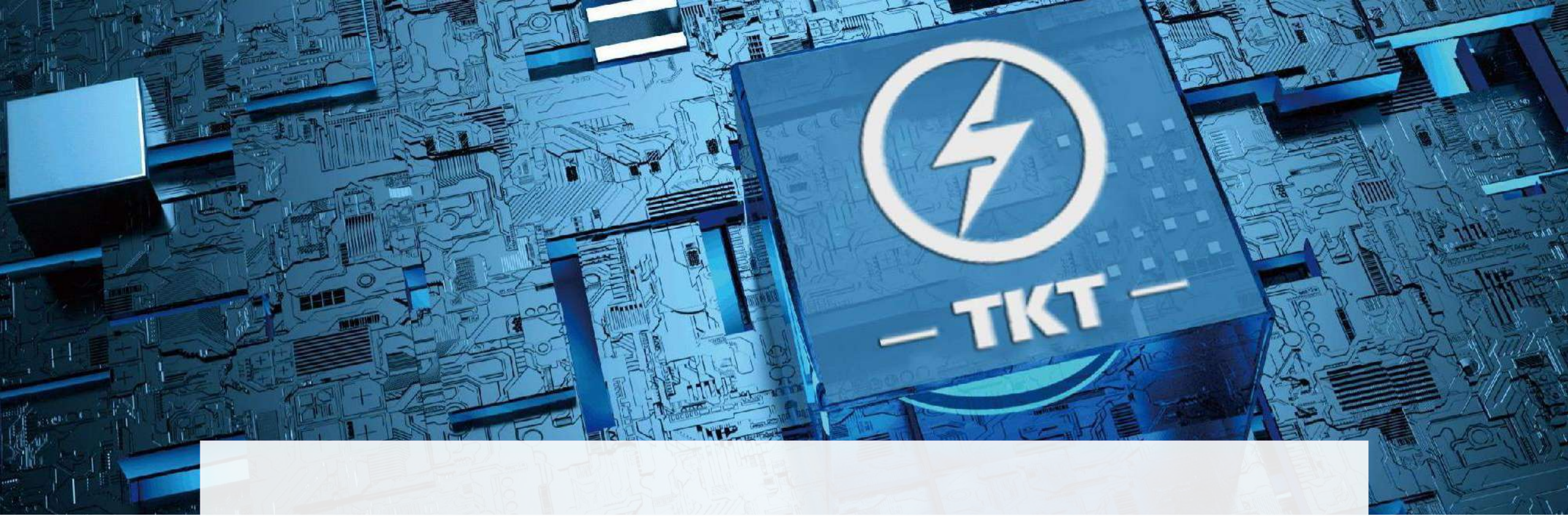
Item	Model	TKT-A007-Type 2	TKT-A011-Type 2	TKT-A022-Type 2
Input	Power Supply	3 wire-L,N plus PE	5 wire -L1,L2,L3,N plus PE	
	Rated Voltage	230V AC	400V AC	400V AC
	Rated Current	32A	16A	32A
	Frequency	50~60HZ		
Output	Output Voltage	230V AC	400V AC	400V AC
	Output Current	32A	16A	32A
	Rated Output Power	7kW	11kW	22kW
User Interface	Charging Connector	IEC 61851-1,Type 2		
	Cable Length	5M/Customized		
	Enclosure	PC 940A +ABS		
	LED Indicator	Power/OCPP/App/Charge		
	RFID Reader	Mifare ISO/EC 14443 A		
	Start Mode	Plug&Play /RFID card		
	Emergency Stop	Yes		
Communication	Networking	WIFI/4G (Optional) /LAN		
	Protocal	OCPP 1.6 Json		
Safety	Energy Meter	Optional		
	RCD	TypeA+6mA DC		
	IP Protection	IP65		
	Impact Protection	IK10		
	Electrical Protection	Over current protection, Residual current protection, Ground protection, Surge protection,Over/Under voltage protection, Over/Under frequency protection,Over/Under temperature protection		
Environment	Installation	Wallmount/Pole-mount		
	Work Temperature	-25°C~+50°C		
	Work Humidity	5%~95%		
	Work Altitude	<2000M		
Package	Product Dimension	320*210*120mm(L*W*H)		
	Package Dimension	470*320*270mm(L*W*H)		
	Net Weight	7kg	7kg	9kg
	Gross Weight	8kg	8kg	10kg
	External Package	Carton		

EV Chargers Installation Case



EV Chargers Installation Case





TKT OPERATING PLATFORM



TKT-OPERATING PLATFORM



Hierarchical management

Statistical analysis

Intelligent maintenance

Charging mode

Operation support

Interconnection

TKT-OPERATING PLATFORM

Financial management

Financial statistics, transfer records, recharge records, electricity price settings

User management

Charging users, charging cards, user groups

Real-time monitoring

Real-time charging monitoring, pile monitoring, station monitoring

Historical records

Charging records, alarm records



The platform applies scientific analysis and statistical methods and concepts to quickly help franchisees quickly count the income information of different periods and different power stations. It also provides functions such as reconciliation, coupons, order invoicing and menu power station permissions, so that franchisees can better manage all business activities of the power station.

System management

System user management, system logs, role permissions

Remote diagnosis

Fault handling, manual feedback

Operation management

Member management, coupon management, event management, event statistics

Configuration management

Version management, vehicle management, charging station configuration, charger configuration



TKT EV TECH PTE. LTD.
TKT EV SOLUTION

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