T·LUCE®

LIGHT
AS AN EXPRESSION
OF LIFE

NEW ENERGY VEHICLE CHARGING OVERALL SOLUTION

CATALOG

Product naming rules

HJL-AC-G-000-A-XXX

- Company name
- AC: Alternating Current DC: Direct Current
- L: Vertical type of charging pile
  B: Wall-mounted charging pile
  G: charging pile for advertisement
  Y: All-in-one charging pile
  X: Potable charging pile
  F: Split charging pile
- 000KW: power
- A: Single EV plug
  B: Double EV plugs
  C: Triple EV plugs
  D: Quadruple EV plugs
- Product Specific Types

ENTERPRISE PROFILE

T-Luce Srl is a professional High-tech enterprise that integrates:
R&D, production, sales and service. It has established in accordance with the Standards of Modern Enterprise System with limited liability, collected with professional R&D team and management team. We are committed to providing overall operation and product solutions for the application of new energy technology and energy-saving and emission-reduction. We have accumulated rich experience and achieve extensive technical research results in charging solutions of electric vehicles and electric bicycles as well as the construction of charging facilities. We try our best to provide customers with professional and comprehensive charging equipments and the integrated solution of charging operation and construction. Upholding the enterprise concept "people-oriented, Quality First, Customer First and Excellence Pursuit", we have made a heavy contribution for the development of green charging industry, energy-saving and emission-reduction.

With abundant product categories, currently more than 200 products have been developed and manufactured, including main products such as DC integrated charging pile, DC split charging pile, DC Advertising Pile, AC Advertising Pile, Advertising all-in-one charging pile, AC/DC all-in-one charging pile, electric bicycle charging pile, electric bicycle charging and swapping cabinet, etc. Each category of products is produced elaborately and we strive to provide customers with the best user experience and quality assurance.

Looking ahead, based on diversified mechanisms such as continuous independent innovation, the combination of industry, education and research and the industrial alliance cooperation, we are going to increase R&D investments continually, grasp the new opportunities for development and actively expand the burgeoning industrial fields such as new energy sources, energy conservation and emission reduction and other emerging industries. In the field of industry, we try our best to meet the challenge with confidence from an international perspective, in order to make Hong Jiali a world-class energy service provider!

SOLUTIONS

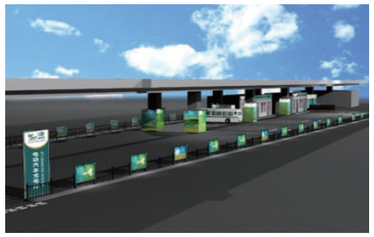
The Solution for Charging Network Operators

The Charging Solution for Parking Lots of Commercial Buildings

The Solution of Special Charging for New Energy Vehicles

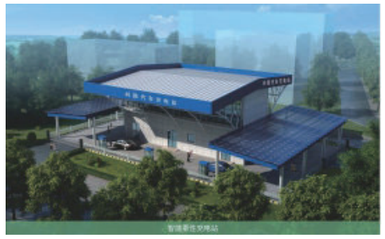
The Charging Solution for Emergency Rescue

The Charging Solution for Car Rental



The Charging Solution for Expressway Service Station

he Solution for Local Government Charging Project



The Solution for Optical Storage and Charging

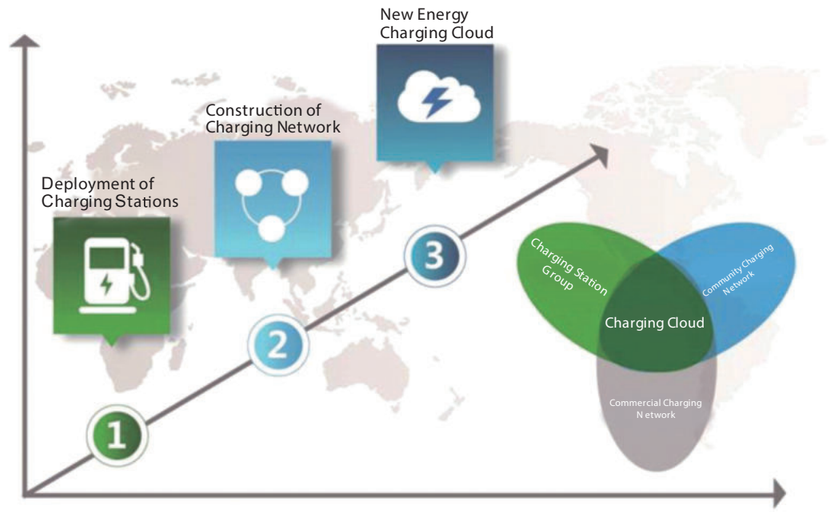
The Solution for Charging Network Operators

Applicable objects: This scheme is applicable to charging pile network operators and product operators.

Features: Seamless connected with Wechat and mobile APP, it realizes the convenience for charging, guidance, service, etc. as well as the characteristics of instant charging, simple operation, easy tracking and convenient use.

Applicable Scenes: Urban areas and surroundings, intercity expressway.

Applicable Scenes:



The Solution of Special Charging for New Energy Vehicles

Applicable objects: the manufacturers of new energy vehicles.

Features: Starting from the details and considering for customers, it makes charging safer, more economical and more convenient.

Applicable Scenes: Residential Quarters and Users of New Energy Vehicles

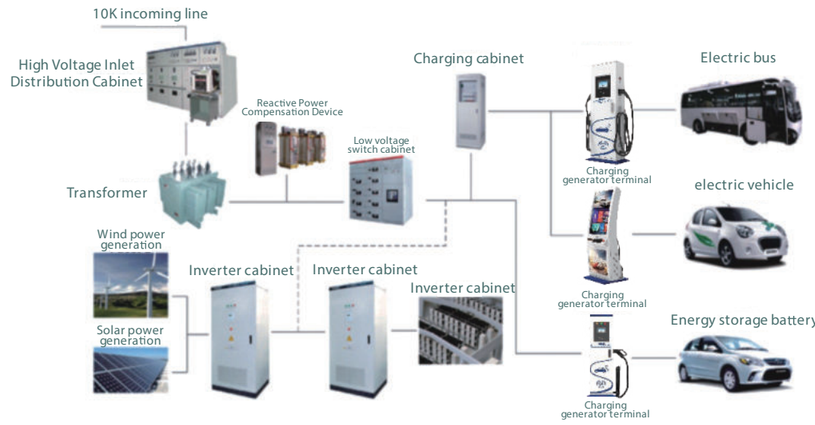
Intelligent terminal

The Charging Solution for Car Rental

Applicable objects: Bus groups, car rental companies, commercial real estates

Features: Combined with special network solutions, intelligent operation management systems,and power and safety monitoring systems, it is safe, reliable and efficient to meet the needs of electric vehicles.

Applicable Scenes: Bus stops, logistics centers, leasing companies and operating locations.



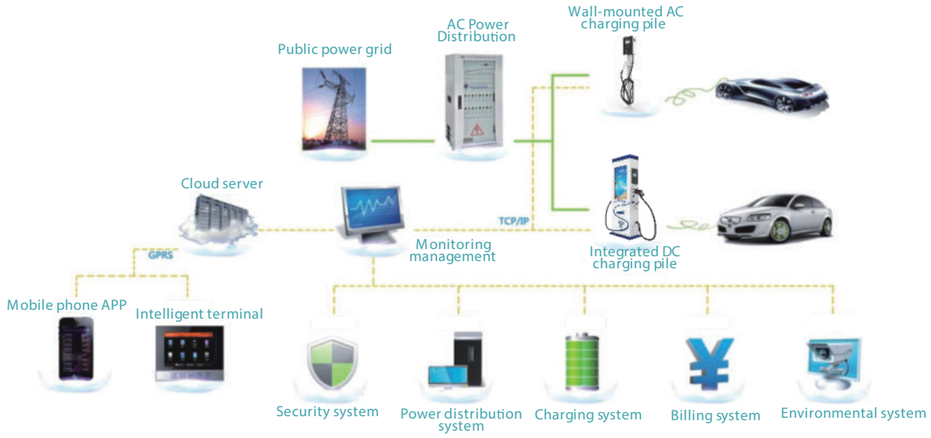
Intelligent terminal

The Solution for Local Government Charging project

Applicable objects: Government Bidding Projects and Operating Projects of Enterprises and Institutions.

Features: it provides innovative models and service solutions for the government to promote the development of new energy vehicles, and shares the win-win cooperation concept to promote the development of industry and market.

Applicable Scenes: Theme parks, large venues and other public places.



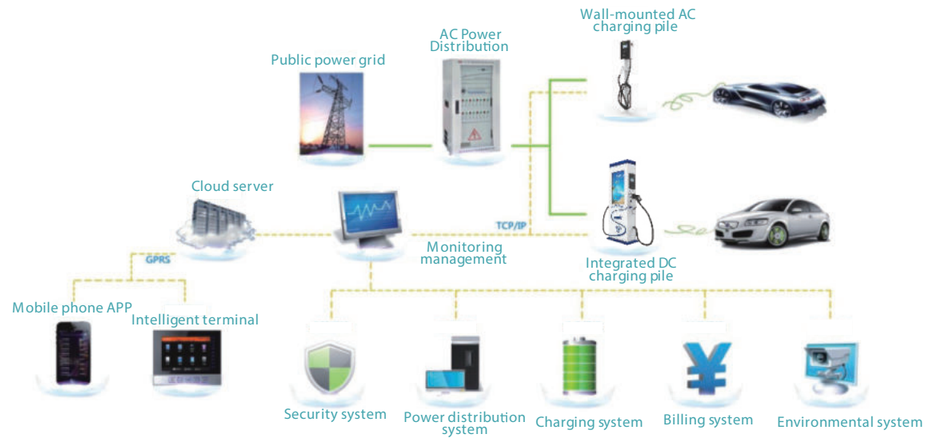
Intelligent terminal

The Charging Solution for Parking Lots of Commercial Buildings

Applicable objects: Product operators, multimedia operators, etc

Features: It makes full use of the environmental resources of the scenes, and extends the energy service chain to save investment costs and enhance service values.

Applicable Scenes: Bus stops, logistics centers, leasing companies and operating locations.



Intelligent terminal

The Charging Solution for Emergency Rescue

Applicable objects: Product operators, new energy vehicle sales centers, electric vehicle commissioning areas, etc.

Features: Contributed to the construction of "Smart Transport" and "Smart City", it integrates multiple functions, and different serials of products can reliably meet the emergency charging needs of terminal customers in multiple scenarios, which realizes the diversified management of cities.

Applicable Scenes: Electric vehicle 4S shops, electric vehicle debugging areas, road vehicle accident scenes and other occasions which require mobile power supply, as well as the construction of street lamp charging stations in urban designated areas.

Intelligent terminal

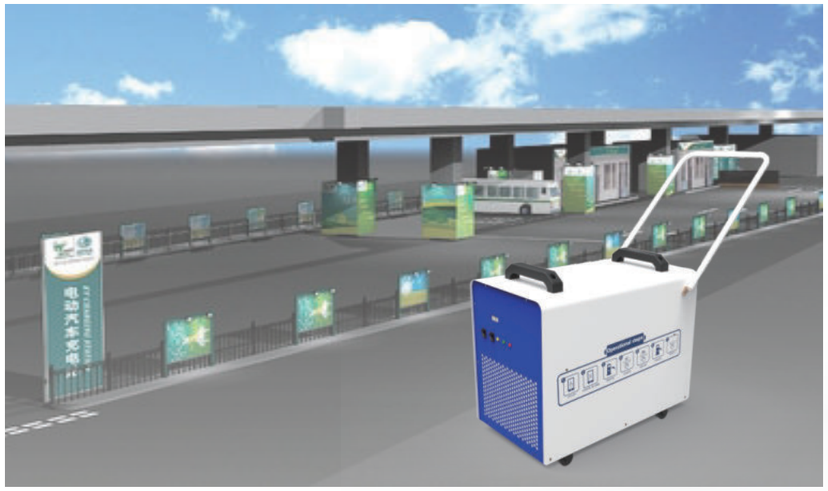
The Charging Solution For Expressway Service Station

Applicable objects: Product operators, High Speed/Intercity Service Station Operations

Features: The intelligent operation management schemes meet the needs of continuation of the journey. Fast and convenient: Fast charging technology that saves time for users It's safe, reliable and efficient to meet the long-distance charging requirements of electric vehicles

Applicable Scenes: Expressway and Intercity Expressway.

Intelligent terminal



AC Charger

1)7KW AC Charger

Applicable Scenes:

They are suitable for occasions such as private villas, residential areas, commercial office buildings,urban complex parking lots or urban public charging stations that can charge slowly for a long time; or applied for 4S stores of new energy vehicles, workshop debugging areas, road rescue of new energy vehicles and other occasions that require frequent change of charging station sites or temporary power supply.

Features:

- Delicate appearance, simple operation, convenient installation;
- High efficiency, reliable and stable performance;
- Friendly interaction interface, 4.3-inch color touch screen;
- Support multiple modes of charging, operation management and payment;
- Support Ethernet or wireless telecommunication;
- Support RFID Card/OCPP 1.6 (optional);
- Support Type-2 connector(or Socket)optional;
- Overload integrated Protection;
- Support online data upgrade.

Technical Data

S. NO.	Parameters	Requirements
General Requirements		
1	EV charger Type	AC
2	Charger Capacity	7KW
3	Model No.	TL-ACL007A / ENC-ACB007A
4	Mounting	Column type/ Wall-mounted
Input Requirements		
5	AC Supply System	Single-Phase, 3 Wire AC system
6	Nominal Input voltage	220V (+20% and -20%)
7	Input frequency	50Hz, ± 1.5Hz / 60Hz, ± 1.5Hz
Environmental Requirements		
8	Ambient Temperature Range	-25 to 55° C
9	Ambient Humidity	5 to 95%
10	Storage temperature	-40 to 70° C
Mechanical Requirements		
11	IP Ratings	IP 54
12	Cooling	Air cooled
Output Requirements		
13	Number of outputs	1
14	Type of each output	220V (+20% and -20%) single phase, 32Amp
15	Output Current	32 Amp
16	Output Connector Compatibility	IEC-61851-22, IEC 62196-2 Mode 2, Type 2
User Interface & Display Requirements		
17	Display & touch-screen size	4.3 inches
18	User Authentication	Mobile application or User interface / QR Code/RFID Card /Password Login
19	Metering Information	Consumption Units
Communication Requirements		
20	Communication between EVSE and Central Server	OCPP 1.6 protocol
21	Interface between charger and CMS	Ethernet and GPRS Modem
Protection & Safety Requirements		
22	Safety Parameters	Over current, under voltage, Residual current, Surge protection, leakage protection, Short circuit, Over temperature, etc.
23	Power failure	If there is a power failure, user is indicated about this.

AC Charger

2)22KW AC Charger

Applicable Scenes:

They are suitable for occasions such as city special chargingstations that provide charging for bus, taxi,public service vehicles, sanitation vehicles, logistics vehicles, etc.; city public charging stations that provide charging for private cars, commuter, bus;intercity highway charging stations and other occasions that need special AC fast charging.

Features:

- Delicate appearance, simple operation, convenient installation;
- High efficiency, reliable and stable performance;
- Friendly interaction interface, 4.3-inch color touch screen;
- Support multiple modes of charging, operation management and payment;
- Support Ethernet or wireless telecommunication;
- Support RFID Card/OCPP 1.6 (optional);
- Support Type-2 connector(or Socket)optional;
- Overload integrated Protection;
- Support online data upgrade.

Technical Data

S. NO.	Parameters	Requirements
General Requirements		
1	EV charger Type	AC
2	Charger Capacity	22KW
3	Model No.	TL-ACL022A
4	Mounting	Ground-mounted
Input Requirements		
5	AC Supply System	Three-Phase, 5 W ire AC system
6	Nominal Input voltage	220V (+20% and -20%)
7	Input frequency	50Hz, ± 1.5Hz / 60Hz, ± 1.5Hz
Environmental Requirements		
8	Ambient Temperature Range	-25 to 55° C
9	Ambient Humidity	5 to 95%
10	Storage temperature	-40 to 70° C
Mechanical Requirements		
11	IP Ratings	IP 54
12	Cooling	Air cooled
Output Requirements		
13	Number of outputs	1
14	Type of each output	220V (+20% and -20%) three phase, 32Amp
15	Output Current	32 Amp
16	Output Connector Compatibility	IEC-61851-22, IEC 62196-2 Mode 2, Type 2
User Interface & Display Requirements		
17	Display & touch-screen size	4.3 inches
18	User Authentication	Mobile application or User interface / QR Code/RFID Card /Password Login
19	Metering Information	Consumption Units
Communication Requirements		
20	Communication between EVSE and Central Server	OCPP 1.6 protocol
21	Interface between charger and CMS	Ethernet and GPRS Modem
Protection & Safety Requirements		
22	Safety Parameters	Over current, under voltage, Residual current, Surge protection, leakage protection, Short circuit, Over temperature, etc.
23	Power failure	If there is a power failure, user is indicated about this.

DC Charger

2) 30KW/40KW DC Charger

Applicable Scenes:

They are suitable for occasions such as city special charging stations that provide charging for bus, taxi, public service vehicles, sanitation vehicles, logistics vehicles, etc.; city public charging stations that provide charging for private cars, commuter, bus; intercity highway charging stations and other occasions that need special DC fast charging.

Features:

- Simple operation, convenient installation;
- High efficiency, reliable and stable performance;
- Friendly interaction interface, 4.3inch color touch screen;
- Support multiple modes of charging, operation management and payment;
- Support 3G/4G,, Ethernet or wireless telecommunication;
- Support RFID Card/OCPP 1.6 (optional);
- Support CCS-2/CHAdeMO connector(or Socket)optional;
- Overload integrated Protection;
- Support online data upgrade.

Technical Data

Sr. NO.	Parameters	Requirements	
General Requirements			
1	EV charger Type	DC	
2	Charger Capacity	30KW	40KW
3	Model No.	TL-DCL030A(B)	TL-DCL040A(B)
4	Mounting	Ground mounted	
Input Requirements			
5	AC Supply System	Three-Phase, 5 Wire AC system	
6	Nominal Input voltage	380V (+20% and -20%)	
7	Input frequency	50Hz, ± 1.5Hz / 60Hz, ± 1.5Hz	
Environmental Requirements			
8	Ambient Temperature Range	-25 to 55° C	
9	Ambient Humidity	5 to 95%	
10	Storage temperature	-40 to 70° C	
Mechanical Requirements			
11	IP Ratings	IP 54	
12	Cooling	Forced air cooled	
Output Requirements			
13	Number of outputs	1 OR 2	
14	Type of each output	200-750VDC (+20% and -20%)	
15	Output Current	Max. 75Amp	
16	Power Factor	≥ 0.99(50% load above)	
User Interface & Display Requirements			
17	Display & touch-screen size	4.3 inches	
18	User Authentication	Mobile application or User interface / QR Code/RFID Card /Password Login	
19	Metering Information	Consumption Units	
Communication Requirements			
20	Communication between EVSE and Central Server	OCPP 1.6 protocol	
21	Interface between charger and CMS	Ethernet and GPRS Modem	
Protection & Safety Requirements			
22	Safety Parameters	Over current, under voltage, Residual current, Surge protection, leakage protection, Short circuit, Over temperature, etc.	
23	Power failure	If there is a power failure, user is indicated about this.	

142KW ADC Charger

Applicable Scenes:

They are suitable for occasions such as city special charging stations that provide charging for bus, taxi, public service vehicles, sanitation vehicles, logistics vehicles, etc.; city public charging stations that provide charging for private cars, commuter, bus; intercity highway charging stations and other occasions that need special fast charging.

Features:

- Simple operation, convenient installation;
- High efficiency, reliable and stable performance;
- Two DC output (CCS-2 and CHAdeMO) and one AC output (Type 2)
- Friendly interaction interface, 7inch color touch screen;
- Support multiple modes of charging, operation management and payment;
- Support RFID Card/OCPP 1.6 (optional);
- Overload integrated Protection;
- Support online data upgrade.

Technical Data

Sr. NO.	Parameters	Requirements		
General Requirements				
1	EV charger Type	DC + AC		
2	Charger Capacity	142KW (60KW CCS-2 + 60KW CHAdeMO + 22KW Type 2)		
3	Model No.	TL- ADCL142C		
4	Mounting	Ground mounted		
Input Requirements				
6	Input voltage Range	260VAC to 530VAC		
7	Input frequency	50Hz, ± 1.5Hz / 60Hz, ± 1.5Hz		
Environmental Requirements				
8	Ambient Temperature	-20 to 75° C		
9	Ambient Humidity	5 to 95%		
10	Storage temperature	-20 to 80° C		
Mechanical Requirements				
11	IP Ratings	IP 54		
12	Cooling	Forced air cooled		
Output Requirements				
13	Number of outputs	3		
14	Type of each output	DC output 1	DC output 2	AC output
		CCS-2, up to 60KW	CHAdeMO, up to 60KW	Type2, 3 phase, Max. 22KW
16	Power Factor	≥ 0.99(50% load above)		
User Interface & Display Requirements				
17	Display & touch-screen size	7 inches		
18	User Authentication	Mobile application or User interface / QR Code/RFID Card /Password Login		
19	Metering Information	Consumption Units		
Communication Requirements				
20	Communication between EVSE and Central Server	OCPP 1.6 protocol		
21	Charger and CMS	Ethernet and GPRS Modem		
Protection & Safety Requirements				
22	Safety Parameters	Over current, under voltage, Residual current, Surge protection, leakage protection, Short circuit, Over temperature, etc.		
23	Power failure	If there is a power failure, user is indicated about this.		

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