FLYFINE

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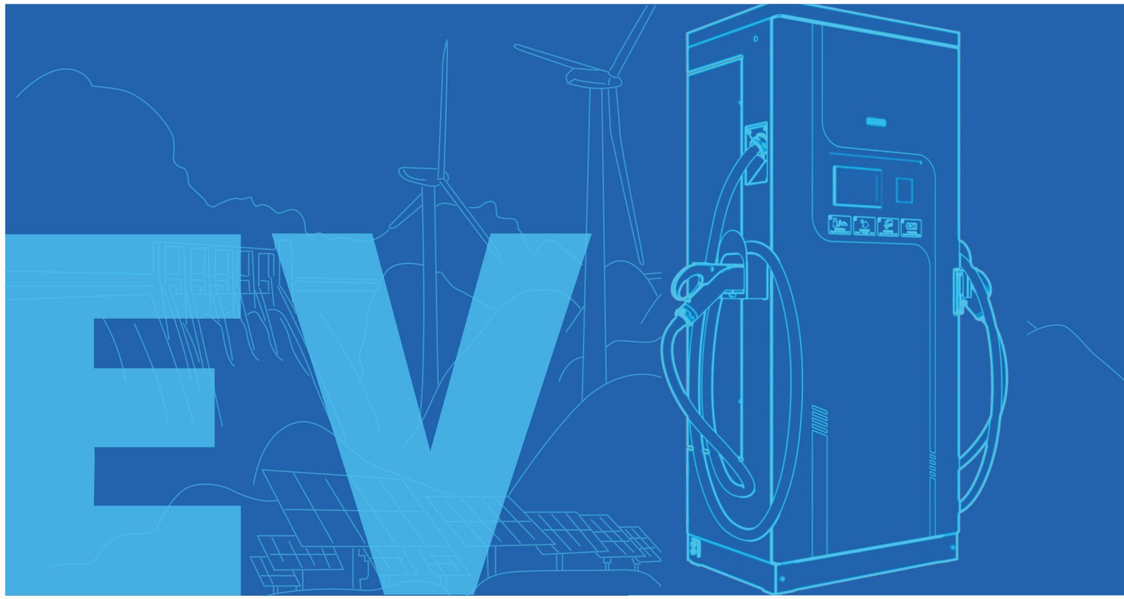
FLYFINE

EV Charging Solutions



FLYFINE

Products Series

Leading Technology And Solution Provider

Charging Station

High quality with time and power saving

30-40 kW

50-80kW

120-160kW

180-240kW

AC Charger

360-480kW DC Split Charger

- **16** authoritative test reports
- **Time Saving: 96%** of transform efficiency
- **Power Saving: 96%** lower standby power consumption than national standard
- **Stable:** Low failure rate
- **Environment friendly:** Low noise

DC Fast Charger

Electree Series

50kW~400kW
CCS2 & CHAdeMO

Customized product

Liquid-cooled

Chinese standard
600kW split charger

Customized product

Time-saving

Fast charging

Power saving

High conversion efficiency and low standby power consumption

High Safety

Dual protection to both manual operation and vehicles

High Reliability

High reliability and low failure rate with low operation and maintenance costs. Always available, easy to use and profitable.

High Efficiency

Efficient and power saving.
Low heat loss and heat dissipation.
Low overall power consumption and operating costs.

High Safety

Dual protection.
Active protective function.
No fire or electric shock risk.
Safety of network and supply.

Environment friendly

Low noise and easy to use.
Environment friendly.

Fast charging

Constant power output at different voltage and temperatures.
Fast charging capability in all scenarios.
Dispatching power according to different demand.

Intelligent

Intelligently connect multiple operating devices with information-based remote operation management.

Core Advantages

Harsh environment	Excellent performance at high temperature with wide constant power range
Charging efficiency	Full load charging efficiency is higher than most others in the industry
Standby energy saving	Low standby power consumption, reducing operating costs
Applicable to all types of vehicles	Output power 100-1000V, applicable to all types of electric vehicles
Application scenarios	It is compatible with the design of DC charging module and has a wider application scenarios
Efficient and stable heat dissipation	Unique air duct design, small impedance, strong compression capacity, high heat dissipation efficiency, stable and reliable
Simple structure and layout	Simple and elegant structure layout,low and high voltage separate, AC/DC isolate small footprint
Waterproof and dustproof	Electrical and air duct arecompletely isolated, physical structure of waterproof design, high density dust net
UI customization	Customized appearance
Flexible power distribution	The power can be flexibly distributed according to the needs of each terminal's demand
Excellent noise reduction	Folded space design increases the sound-deadening area, which can cancel noise better

50kW-400kW Electree DC Charger

Control Core

- Scientific software control logic and algorithms
- Stable hardware architecture

Human-machine Interaction

- HDV & HB outdoor display
- M1 card and credit card compatible
- Friendly operation interface

Beautiful Appearance

- Simple appearance shape
- Customizable logo
- Operation steps in EN & CH

Thermal & Noise Reduction

- Smooth heat dissipation & airway design
- Better than peers in noise reduction ana intelligent temperature control

Suitable for Multi-type Module

- Reliable & efficient high-power module
- Hot-pluggable
- 30, 40kW modules compatible
- Domestic and international certifications

Excellent Gun Line Design

- Humanized height of hanging stand
- Waterproof design of hidden gun holder
- Integrated wire out, hanger and holder

Interior Design

- Safe & reliable electrical and structural design
- Protection for live parts
- Maintenance-friendly layout
- Separate layout for main/control circuits

FLYFINE

Connector

	GB/T		COMBO CCS1		COMBO CCS2		CHAdeMO	
	AC	DC	AC	DC	AC	DC	AC	DC
Connector 充电枪								
Inlet 充电接口								
Standard 使用标准	GB/T 20234.2/ .3 IEC 62196-3(BB)		SAE J1772 IEC 62196-3(EE)		IEC/EN 62196-2/-3(FF)		CHAdeMO IEC 62196-3(AA)	
Protocol 充电协议	CAN		PLC		PLC		CAN	

600A Liquid-cooled Terminal

Control Core

- Scientific software control logic and algorithms
- Stable hardware architecture

Human-machine Interaction

- HDV & HB outdoor display
- M1 card and credit card compatible
- Friendly operation interface

Thermal & Noise Reduction

- Smooth heat dissipation & airway Better than peers in noise reduction and intelligent temperature control
- Intelligent design of heat exchange fins

Beautiful Appearance

- Simple appearance shape
- Customizable logo
- Operation steps in EN & CH

Excellent Gun Line Design

- Humanized height of hanging stand
- Waterproof design of hidden gun holder
- Integrated wire out, hanger and holder

High power liquid cooling gun

- Ultra-wide voltage output: 150-1000Vdc
- High current continuous output: 0-600A
- Intelligent charging control strategy

Interior Design

- Safe & reliable electrical and structural design
- Maintenance-friendly layout
- Separate layout for main/control circuits

FLYFINE

50-80kW DC Fast Charging Station

Product description

Designed for the European market, this product has more powerful data calculation and processing capacity, smarter dispatching strategy, better heat dissipation performance and lower noise, and fully meets the requirements of high-power DC charging of vehicles with European and Japanese standard DC interface.

The product has multiple protection design and active protective function, which can monitor all communication data in the charging process and give early warning to all kinds of abnormal charging to ensure the safety of users and vehicles.

Application Scenarios

- Taxi,online-hailing cars
- Customized shuttle bus
- Bus
- Freight vehicles Special vehicles
- Public charging station
- Enterprises and institutions
- Residence community
- Commercial complex

FLYFINE

Items		Parameters		
Basic index				
	Rated power	50kW	60kW	80kW
	Model	FF50KE	FF60KE	FF80KE
	Dimensions (wxdxh)	800 mm x500mm x 1800 mm		
	Charging outlet	CCS2+CHAdeMO(optional), length: 5m		
	HMI	10.1 inch, color Touch Screen		
	Energy meter	MID		
	Installation	Ground mounted		
Communication				
	EVSE	PLC (DIN 70121: 2014-12 / ISO15118)		
	Back-end protocol	OCPP 1.6 / OCPP 2.0 (upgradeable)		
Method of payment				
	Payment mode	Optional:RFID Card / POS		
Input characteristics				
	Input voltage	400VAC±10%, three-phase+N+PE		
	Frequency	50Hz		
	Power factor	>0.98 (50% ~ 100% load)		
	Harmonic	iTHD<5%		
Output characteristics				
	Voltage	DC 200~1000V		
	Current	CCS2 167A max. CHAdeMO 125A max.	CCS2 200A max. CHAdeMO 125A max.	CCS2 200A max. CHAdeMO 125A max.
	Power	CCS2 50kW max. CHAdeMO 50kW max.	CCS2 60kW max. CHAdeMO 60kW max.	CCS2 80kW max. CHAdeMO 62.5kW max.
	Peak efficiency	>95%		
	Charging way	Meantime		
Environmental indicators				
	Operating temperature	-30 °C ~ +50 °C		
	Relative humidity	5%~95% without condensation		
	Working altitude	<2000M		
	Protection grade	IP54		
	Application site	Indoor/Outdoor		
	Cooling method	Intelligence air forced cooling		
	Noise	⩽55dB		
Markings				
	Certification	CE，CB，UKCA，TR25		
Weight				
	Net Weight	⩽250KG		
	Gross Weight	⩽300KG		

FLYFINE

120-160kW Super-Fast Charging Station

Product description

Designed for the European market, this product has more powerful data calculation and processing capacity, smarter dispatching strategy, better heat dissipation performance and lower noise, and fully meets the requirements of high-power DC charging of vehicles with European and Japanese standard DC interface.

The product has multiple protection design and active protective function, which can monitor all communication data in the charging process and give early warning to all kinds of abnormal charging to ensure the safety of users and vehicles.

Application Scenarios

- Taxi,online-hailing cars
- Customized shuttle bus
- Bus
- Freight vehicles Special vehicles
- Public charging station
- Enterprises and institutions
- Residence community
- Commercial complex

FLYFINE

Items		Parameters		
Basic index				
	Rated power	120kW	150kW	160kW
	Model	FF120KE	FF150KE	FF160KE
	Dimensions (wxdxh)	850 mm x610mm x 2000 mm		
	Charging outlet	CCS2+CHAdeMO(optional), length: 5m		
	HMI	10.1 inch, color Touch Screen		
	Energy meter	MID		
	Installation	Ground mounted		
Communication				
	EVSE	PLC (DIN 70121: 2014-12 / ISO15118)		
	Back-end protocol	OCPP 1.6 / OCPP 2.0 (upgradeable)		
Method of payment				
	Payment mode	Optional:RFID Card / POS		
Input characteristics				
	Input voltage	400VAC±10%, three-phase+N+PE		
	Frequency	50Hz		
	Power factor	> 0.98 (50% ~ 100% load)		
	Harmonic	iTHD<5%		
Output characteristics				
	Voltage	DC 200~1000V		
	Current	CCS2 200A max. CHAdeMO 125A max.		
	Power	CCS2 120kW max. CHAdeMO 62.5kW max.	CCS2 150kW max. CHAdeMO 62.5kW max.	CCS2 160kW max. CHAdeMO 62.5kW max.
	Peak efficiency	>95%		
	Charging way	Meantime		
Environmental indicators				
	Operating temperature	-30 °C ~ +50 °C		
	Relative humidity	5%~95% without condensation		
	Working altitude	<2000M		
	Protection grade	IP54		
	Application site	Indoor/Outdoor		
	Cooling method	Intelligence air forced cooling		
	Noise	⩽60dB		
Markings				
	Certification	CE，CB，UKCA，TR25		
Weight				
	Net Weight	⩽330KG		
	Gross Weight	⩽400KG		

FLYFINE

180-240kW Ultra-fast charging station

Product description

Designed for the European market, this product has more powerful data calculation and processing capacity, smarter dispatching strategy, better heat dissipation performance and lower noise, and fully meets the requirements of high-power DC charging of vehicles with European and Japanese standard DC interface.

The product has multiple protection design and active protective function, which can monitor all communication data in the charging process and give early warning to all kinds of abnormal charging to ensure the safety of users and vehicles.

Application Scenarios

- Taxi,online-hailing cars
- Customized shuttle bus
- Bus
- Freight vehicles Special vehicles
- Public charging station
- Enterprises and institutions
- Residence community
- Commercial complex

FLYFINE

Items		Parameters	
Basic index			
	Rated power	180kW	240kW
	Model	FF180KE	FF240KE
	Dimensions (wxdxh)	850 mm x800mm x 2000 mm	
	Charging outlet	CCS2+CHAdeMO(optional), length: 5m	
	HMI	10.1 inch,color Touch Screen	
	Operating environment	Indoor or outdoor (IP54)	
	Energy meter	MID	
	Installation	Ground mounted	
Communication			
	EVSE	PLC (DIN 70121: 2014-12 / ISO15118)	
	Back-end protocol	OCPP 1.6 / OCPP 2.0 (upgradeable)	
Method of payment			
	Payment mode	Optional:RFID Card / POS	
Input characteristics			
	Input voltage	400VAC±10%, three-phase+N+PE	
	Frequency	50Hz	
	Power factor	> 0.98 (50% ~ 100% load)	
	Harmonic	iTHD＜5%	
Output characteristics			
	Voltage	DC 200~1000V	
	Current	CCS2 300A max. CHAdeMO 125A max	
	Power	CCS2 180kW max. CHAdeMO 62.5kW max.	CCS2 240kW max. CHAdeMO 62.5kW max
	Peak efficiency	＞95%	
	Charging way	Meantime	
Environmental indicators			
	Operating temperature	-30 °C ~ +50 °C	
	Relative humidity	5%~95% without condensation	
	Working altitude	<2000M	
	Protection grade	IP54	
	Application site	Indoor/Outdoor	
	Cooling method	Intelligence air forced cooling	
	Noise	⩽60dB	
Markings			
	Certification	CE，CB，UKCA，TR25	
Weight			
	Net Weight	⩽440KG	
	Gross Weight	⩽530KG	

FLYFINE

320-400kW Supergiant Charging station

Product description

Designed for the European market, this product has more powerful data calculation and processing capacity, smarter dispatching strategy, better heat dissipation performance and lower noise, and fully meets the requirements of high-power DC charging of vehicles with European and Japanese standard DC interface.

The product has multiple protection design and active protective function, which can monitor all communication data in the charging process and give early warning to all kinds of abnormal charging to ensure the safety of users and vehicles.

Application Scenarios

- Taxi,online-hailing cars
- Customized shuttle bus
- Bus
- Freight vehicles Special vehicles
- Public charging station
- Enterprises and institutions
- Residence community
- Commercial complex

FLYFINE

Items		Parameters	
Basic index			
	Rated power	320kW	400kW
	Model	FF320KE	FF400KE
	Dimensions (wxdxh)	850 mm x1100mm x 2100 mm	
	Charging outlet	CCS2+CHAdeMO(optional), length: 5m	
	HMI	10.1 inch, color Touch Screen	
	Energy meter	MID	
	Installation	Ground mounted	
Communication			
	EVSE	PLC (DIN 70121: 2014-12 / ISO15118)	
	Back-end protocol	OCPP 1.6 / OCPP 2.0 (upgradeable)	
Method of payment			
	Payment mode	Optional:RFID Card / POS	
Input characteristics			
	Input voltage	400VAC±10%, three-phase+N+PE	
	Frequency	50Hz	
	Power factor	> 0.98 (50% ~ 100% load)	
	Harmonic	iTHD<5%	
Output characteristics			
	Voltage	DC 200~1000V	
	Current	CCS2 rate 300A CHAdeMO 125A max	
	Power	CCS2 320kW max. CHAdeMO 62.5kW max.	CCS2 400kW max. CHAdeMO 62.5kW max
	Peak efficiency	>95%	
	Charging way	Meantime	
Environmental indicators			
	Operating temperature	-30 °C ~ +50 °C	
	Relative humidity	5%~95% without condensation	
	Working altitude	<2000M	
	Protection grade	IP54	
	Application site	Indoor/Outdoor	
	Cooling method	Intelligence air forced cooling	
	Noise	⩽65dB	
Markings			
	Certification	CE，CB，UKCA，TR25	
Weight			
	Net Weight	⩽580KG	
	Gross Weight	⩽710KG	

Application Scenarios

- Taxi,online-hailing cars
- Customized shuttle bus
- Bus
- Freight vehicles Special vehicles
- Public charging station
- Enterprises and institutions
- Residence community
- Commercial complex

FLYFINE

160kW DC Charging Station

Product description

Designed for the Chinese market, this product has more powerful data calculation and processing capacity, more intelligent and reasonable distribution strategy, better heat dissipation performance and lower noise performance, and fully meets the requirements of high-power DC charging of vehicles with Chinese standard.

The product has multiple protection design and active protection function, which can monitor all communication data status in the charging process and give early warning to all kinds of abnormal charging and data to ensure the safety of users and vehicles.

FLYFINE

Items		Parameters
Basic index		
	Rated power	160kW
	Model	FF160K02-UX
	Cable current	2 (250A)
	Cooling method	Forced air cooling
	Network type	Ethernet/4G
	Operating environment	Indoor or outdoor (IP54)
	Display mode	10.1 inch screen for streaming media
	Dimensions (WxDxH)	800mm x 610mm x 1880mm
	Weight (kg)	330
	Others	Streaming media,aerosol extinguishing equipment,flood alarm(customizable)
Input characteristics		
	Input voltage	380VAC±15%, three-phase+N+PE
	Frequency	50±1Hz
	Rated input current	258A
	Power factor	⩾0.99
	ITHD	⩽5%
Output characteristics		
	Voltage range	100-1000VDC(Constant power range 300-1000VDC)
	Maximum current	Aplug:250A Bplug:250A
	Charging strategy	80kW+80kW(40kW+40kW+40kW+40kW)
	Peak efficiency	⩾95%
	Output voltage error	⩽±0.5%
	Output current error	⩾30A，⩽±1%;＜30A，⩽±0.3A
	Voltage stabilized accuracy	⩽±0.5%
	Current stabilized accuracy	⩽±1%
	Ripple voltage peak value coefficent	⩽±1%
Environmental indicators		
	Operating temperature	-20 ~ +50°C
	Storage temperature	-40 ～+80°C
	Relative humidity	5~90%RH,non-condensing
	Operational altitude	2000m No derating required >2000m,the working temperature decreases by 1 ° C for every 100m rise

FLYFINE

Charing Station

Product description

This product contains a touch screen, a card reader, a power metering module, a charging module, a communication module, a charging interface, a control module, and a pile shell. The charging cable supports multiple protection functions, with dual input and output safety protection measures.

The user-friendly interface display, control, and guidance functions allow customers to conveniently complete the charging process. Various communication interfaces are provided to support real-time communication with the monitoring center and real-time charging monitoring.

Application Scenarios

- Taxi,online-hailing cars
- Customized shuttle bus
- Bus
- Freight vehicles Special vehicles
- Public charging station
- Enterprises and institutions
- Residence community
- Commercial complex

FLYFINE

Items		Parameters			
Basic index					
	Rated power	60kW	80kW	120kW	160kW
	Model	FF60K	FF80K	FF120K	FF160K
	Cable current	2 (250)			
	Cooling method	Forced air cooling			
	Network type	Ethernet/4G			
	Operatingenvironment	Indoor or outdoor (IP54)			
	Dimensions (WxDxH)	700mm x 400mm x 1600mm		700mm x 450mm x 1700mm	
	Weight(kg)	190	220	240	280
Input characteristics					
	Input voltage	380VAC±15%,three-phase+N+PE			
	Frequency	45Hz-65Hz			
	Rated input current	97A	129A	194A	259A
	Power factor	⩾0.99			
	ITHD	⩽5%			
Output characteristics					
	Voltage range	100-750VDC			
	Maximum current	Aplug：150A Bplug：150A	Aplug：200A Bplug：200A	Aplug：150A Bplug：150A	Aplug：200A Bplug：200A
	Charging strategy	40kW+20kW	40kW+40kW	60kW+60kW(40kW+20kW+20kW+40kW)	80kW+80kW(40kW+40kW+40kW+40kW)
	Peak efficiency	95%			
	Output voltage error	⩽±0.5%			
	Output current error	⩾30A , ⩽±1%; <30A, ⩽±0.3A			
	Voltage stabilized accuracy	⩽±0.5%			
	Current stabilized accuracy	⩽±1%			
	Ripple voltage peak value coefficent	⩽±1%			
Environmental indicators					
	Operating temperature	-20 ~ +50°C			
	Storage temperature	-40 ～+80°C			
	Relative humidity	5~90%RH,non-condensing			
	Operational altitude	2000m No derating required >2000m,the working temperature decreases by 1 ° C for every 100m rise			

Application Scenarios

- Taxi,online-hailing cars
- Customized shuttle bus
- Bus
- Freight vehicles Special vehicles
- Public charging station
- Enterprises and institutions
- Residence community
- Commercial complex

FLYFINE

Charing Station

Product description

This product contains a touch screen, a card reader, a power metering module, a charging module, a communication module, a charging interface, a control module, and a pile shell. The charging cable supports multiple protection functions, with dual input and output safety protection measures.

The user-friendly interface display, control, and guidance functions allow customers to conveniently complete the charging process. Various communication interfaces are provided to support real-time communication with the monitoring center and real-time charging monitoring.

FLYFINE

Items		Parameters		
Basic index				
	Rated power	160kW	240kW	400kW
	Model	FF160K	FF240K	FF400K
	Cable current	2 (250A)		
	Cooling method	Forced air cooling		
	Network type	Ethernet/4G		
	Operating environment	Indoor or outdoor (IP54)		
	Dimensions (WxDxH)	800mm x 550mm x 850mm	800mm x 650mm x 1850mm	800mm x 780mm x 1850mm
	Weight(kg)	320	380	530
Input characteristics				
	Input voltage	380VAC±15%,three-phase+N+PE		
	Frequency	45Hz-65Hz		
	Rated input current	259A	388A	644A
	Power factor	⩾0.99		
	ITHD	⩽5%		
Output characteristics				
	Voltage range	100-1000VDC		
	Maximum current	Aplug：250A Bplug：250A	Aplug：250A Bplug：250A	Aplug：250A Bplug：250A
	Charging strategy	80kW+80kW	120kW+120kW	200kW+200kW
	Peak efficiency	95%		
	Output voltage error	⩽±0.5%		
	Output current error	⩾30A, ⩽±1%; <30A, ⩽±0.3A		
	Voltage stabilized accuracy	⩽±0.5%		
	Current stabilized accuracy	⩽±1%		
	Ripple voltage peak value coefficent	⩽±1%		
Environmental indicators				
	Operating temperature	-20 ~ +50°C		
	Storage temperature	-40 ～+80°C		
	Relative humidity	5~90%RH,non-condensing		
	Operational altitude	2000m No derating required >2000m,the working temperature decreases by 1 ° C for every 100m rise		

FLYFINE

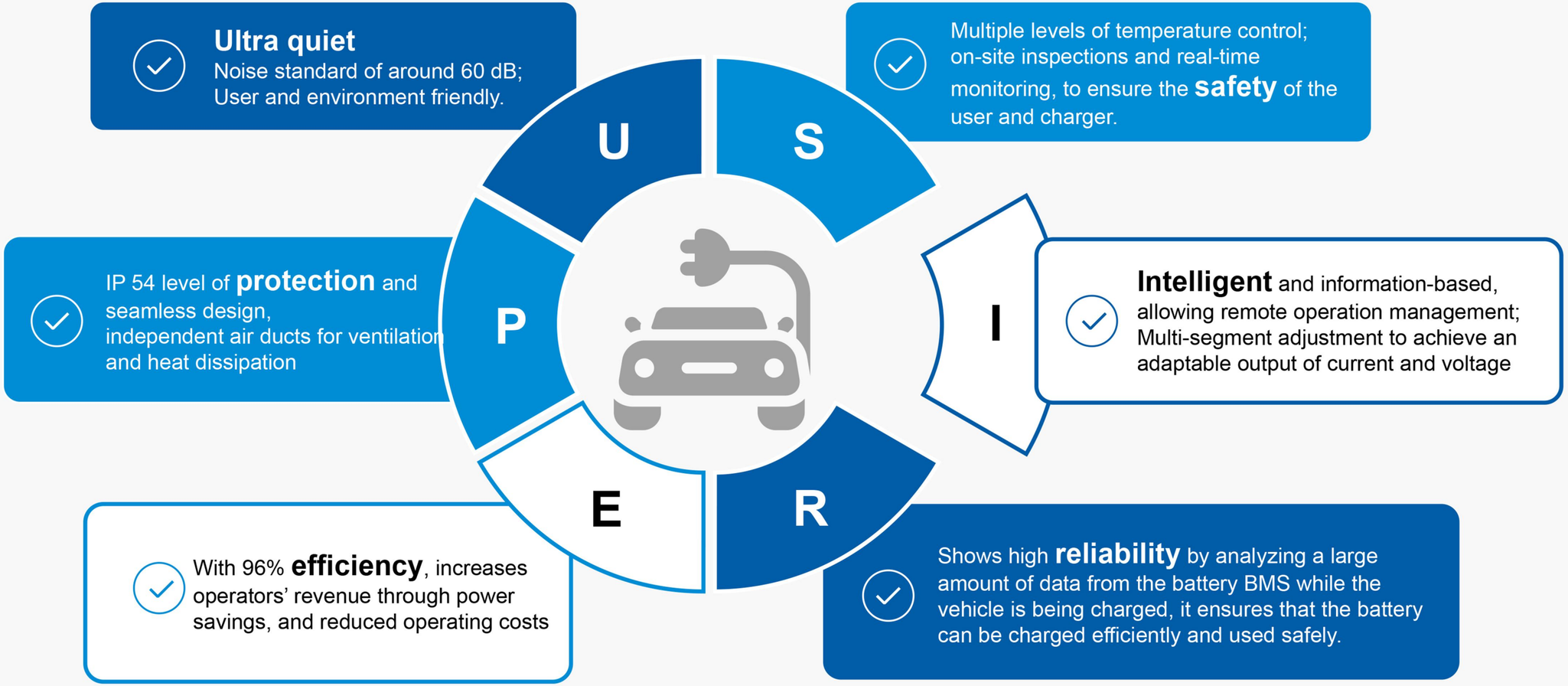
360-480kW
DC Fast Charging Output

FLYFINE

Items		Parameters	
Basic index			
	Rated power	360kW	480kW
	Model	FF360K	FF480K
	Cooling method	Forced air cooling	
	Network type	Ethernet/4G	
	Operating environment	Indoor or outdoor (IP54)	
	Dimensions (width x depth x height)	Size of host machine:1200mm x 900mm x 1950mm Size of terminal:450mm x 200mm x 1500mm (Same size for single and double plugs)	Size of host machine:2100mm x 900mm x 2100mm Size of terminal:450mm x 200mm x 1500mm (Same size for single and double plugs)
	Weight	Host machine:590 Terminal:100 (double plugs), 80 (single plugs)	Host machine:900 Terminal:100 (double plugs), 80 (single plugs)
Input characteristics			
	Input voltage	380VAC±15%,three-phase+N+PE	
	Frequency	45Hz-65Hz	
	Rated input current	582A	773A
	power factor	≥0.99	
	ITHD	≤5%	
Output characteristics			
	Voltage range	100-1000VDC	
	Output voltage error	95%	
	Output current error	≤±0.5%	
	Voltage stabilized accuracy	≥30A, ≤±1%; <30A, ≤±0.3A	
	Current stabilized accuracy	≤±0.5%	
	Ripple voltage peak value coefficent	≤±1%	
	Output voltage error	≤±1%	
	Maximum number of access terminals	(double plug terminal:3) or (single plug terminal:6)	(double plug terminal:4) or single plug terminal:8)
	Power dispatching strategy	1.A total of 9 40kW modules are used and divided into 6 groups,adopting a flexible power strategy of "40kW+80kW+40kW+80kW+40kW+80kW"; 2.It can connect up to 3 double-plug terminals or 6 single-plug terminals, totally 6 charging plugs; The output of each module can be sent to any charging plug; 3.When 6 plugs are charged at the same time, the power distribution is: 40kW+80kW+40kW+80kW+40kW+80kW; The output power range of each plug is:40kW/80kW/120kW/160kW/200kW/240kW;	1.A total of 12 40kW modules are used and divided into 8 groups,adopting a flexible power strategy of 40kW+80kW+40kW+80kW+40kW+80kW+40kW+80kW; 2.It can connect up to 4 double-plug terminals or 8 single-plug terminals, totally 8 charging plugs; The output of each module can be sent to any charging plug; 3.When 8 plugs are charged at the same time, the power distribution is:40kW+80kW+40kW+80kW+40kW+80kW+40kW+80kW; The output power range of each plug is:40kW/80kW/120kW/160kW/200kW/240kW;
Environmental indicators			
	Operating temperature	-20 ~ +50°C	
	Storage temperature	-40 ~+80°C	
	Relative humidity	5~90%RH,non-condensing	
	Operational altitude	2000m No derating required >2000m,he working temperature decreases by 1 ° C for every 100m rise	

DC Fast Charger Characteristics

Time saver, Power saver, Security saver



DC Fast Charger Characteristics

Time saver, Power saver, Security saver

High Safety

Human Safe

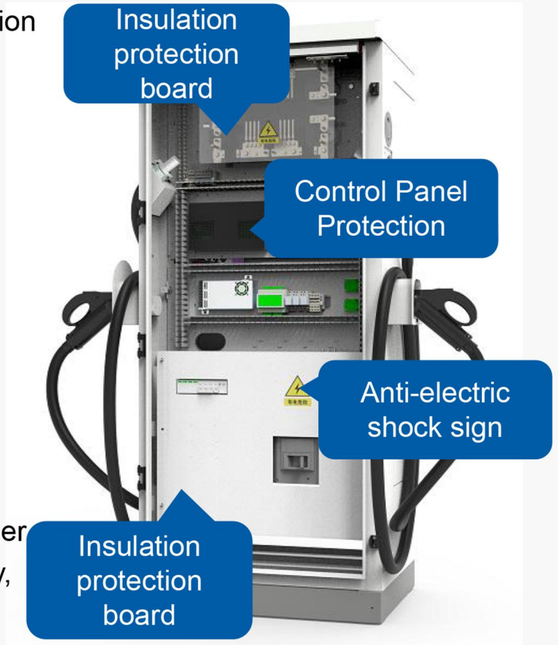
- Grounding & leakage protection device
- Emergency stop button
- Protection lock
- Access control
- Protection plate & mark

Vehicle Safe

- Active protection
- Power down saving
- Remote maintenance

Charger Safe

- Temperature regulation
- Regular maintenance reminder
- Anti-corrosion, anti-salt-spray, anti-rust



High Reliability

1 Independent and Accurate Parameter Detection

- Total voltage, current detection
- CC1 connection detection, temperature detection
- Insulation detection

2 Compatibility

- 12V/24V power supply compatible
- Protocol compatible

3 Exception Handling

- Fast exception handling, remote analysis and processing
- Fault isolation and non-stop processing

4 Anti-interference

- EMC
- Transient suppression capability
- Communication isolation anti-disturbance

4 Testing & Matching Capability

- Protocol consistency, control guidance, charging function and other tests
- More than 20,000 times of card and code switching automatically charging test process
- More than 60 types of car matching experience

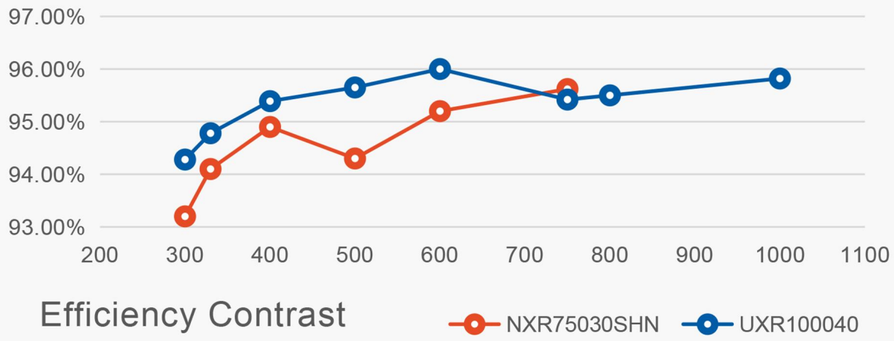
DC Fast Charger Characteristics

Time saver, Power saver, Security saver

High Efficiency

Based on a 120kW DC charger:

- Standby power consumption 40W through optimized control strategy and algorithm and intelligent power-off system
- The maximum charging conversion efficiency of charging module is **> 96.3%**
- The rated conversion efficiency of the whole machine is **> 93%**
- Total annual energy consumption savings: **21286.8kwh**
- Total annual carbon emission reduction: **21223kg**
- Converted into standard coal: **8513kg**



DC Fast Charger Characteristics

Time saver, Power saver, Security saver

Low Failure Rate for Stable Charging

➢ Platform-based software

Increase communication success rate, match old and new vehicles

➢ Unified hardware

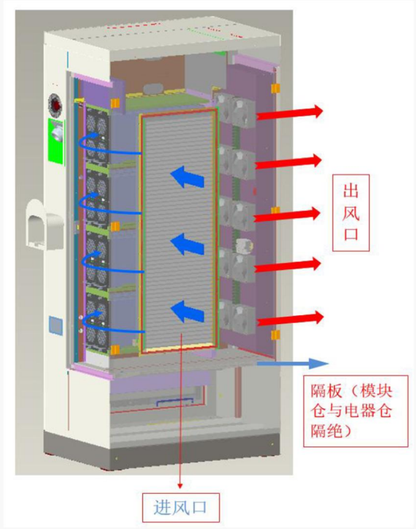
Reduce failure rate through EMC protection, surface treatment and other multiple protection treatments

➢ Real-time temperature monitor

Intelligent integrated management system, avoiding over-temperature and partial over-temperature

➢ Clever structural design

- Complete isolation of airway and electrical compartment
- Double waterproof protection
- Overall structure of industrialized protection design



Low Noise for Quieter Charging Process

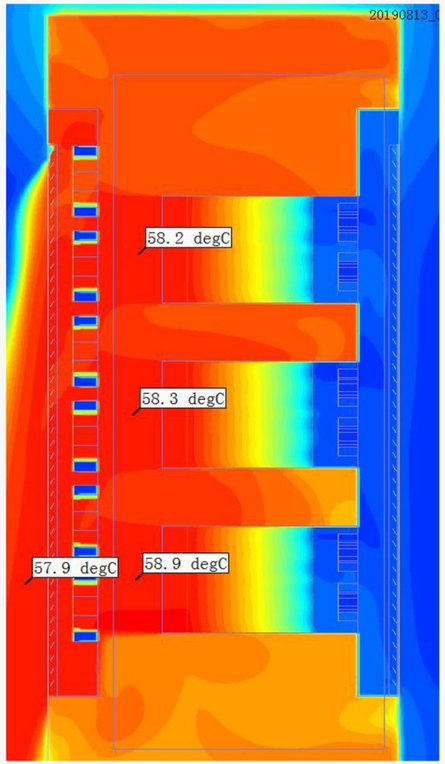
Excellent noise reduction solution to reduce charging point noise by 10-20dB

➢ Source noise reduction

- Optimized heat dissipation of charging module
- Fan frequency control and algorithm optimization

➢ Noise path optimization

- Improve airframe design through thermal and fluid simulation
- Use noise-reducing materials
- Directional noise reduction by designing wind paths



DC Fast Charger Characteristics

Time saver, Power saver, Security saver

Intelligent, More Rational Charging Strategy

- **Support different allocation modes:** no allocation, leftward allocation, rightward allocation, two-way allocation
- **VIP mode:** VIP customers can use resources first
- **Scheduling cycle:** 1min once (time can be set)
- **Power intelligent allocation:** the system can meet the double guns power intelligent allocation according to the configuration and demand, as the following table:

Gun A	Module obtained	Gun B	Module obtained
0-40KW	1	0-40KW	4
0-40KW	1	40-80KW	4/3
0-40KW	1	>80KW	4/3/2
40-80KW	1/2	0-40KW	4
40-80KW	1/2	>40KW	4/3
>80KW	1/2/3	0-40KW	4
>80KW	1/2	>40KW	4/3

*Power equalization table (160KW dual gun system, 4 groups of modules, 40KW per group as an example)功率均分表

Platform-based Hardware and Software