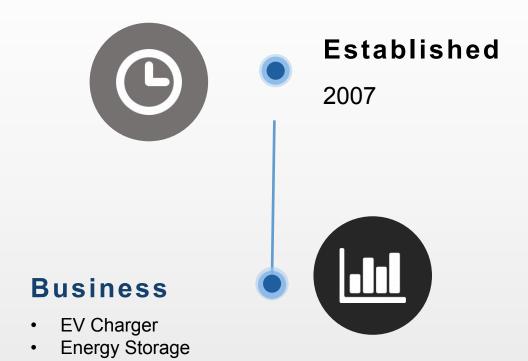


SINEXCEL EV CHARGING SOLUTIONS

About Sinexcel

Power Quaility







10+ years

Since 2010, Sinexcel starts R&D and production of EV charger module, nowadays it is one of the biggest EV charger module manufacturer in the world.

50+ Countries

Coverage of Sinexcel operations.

330000+ sets

Charging modules running.

21000+ sets

EV Fast chargers.

100+ kinds

Control Algorithms

100+ Cities

Business covers more than 100 cities.

800+ employess

With 200+ R&D engineers

Pubilc Listed

Stock Cod 300693, listed at Growth Enterprise Market of China, value 300million USD, value and financial can be tracked at google.



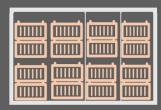
SER1000V Series 20kW EV Charger Module

Environmental conditions	Operating temperature	-30°C ~65°C, Derating above 50°C
	Cooling method	Air cooling
	Altitude	≤2000m, Derating out put above 2000m
Input Characteristics	Input	Three phase + PE
	Input rated voltage	380V AC
	Input voltage range	268—479V AC
	Frequenc	45Hz—65Hz
	Starting inrush current	≤110% rated input current
Mechanical Dimensions	Communication method	CAN BUS
	Size	W238mm)*D(411mm)*H(86 mm)
	Weight	10kg

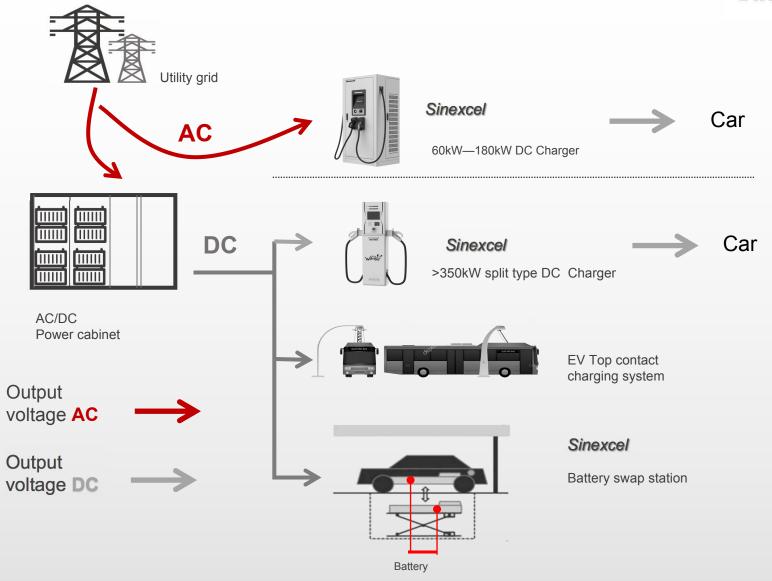
Application Scenarios



Intergtated DC charger



Flexible Power cabinet





Part 01

Applicationlevel

Ultra wide output voltage range

Constant power output speed up charging process

Parts 02

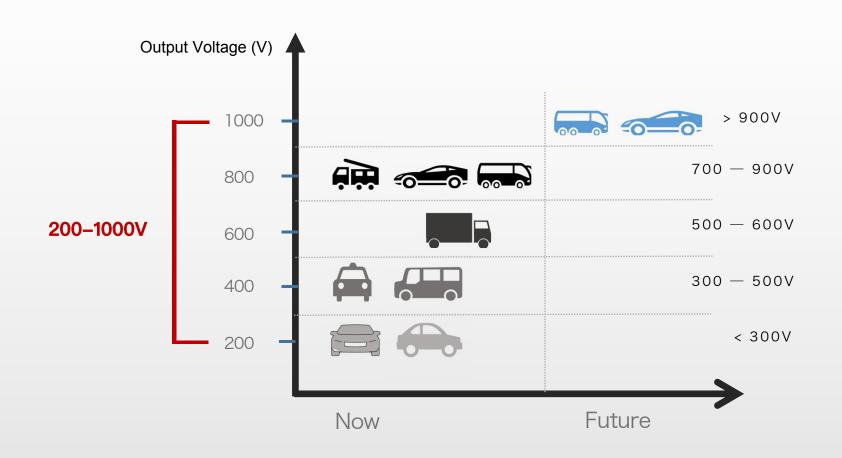
Technical aspects of product

High Efficiency and Energy Conservation Intelligent control

Safety & High Reliability Low noise, Supporting Mute mode

Application - Level

Appliation-level



Ultra wide output voltage range adapt to more types of automotive

200–1000V, compatible with the vast majority of voltage platforms and vehicle charging requirement from now to future.

Reduces operating expenses, increases carrier earnings, and meets the next 5–10 years of technology.

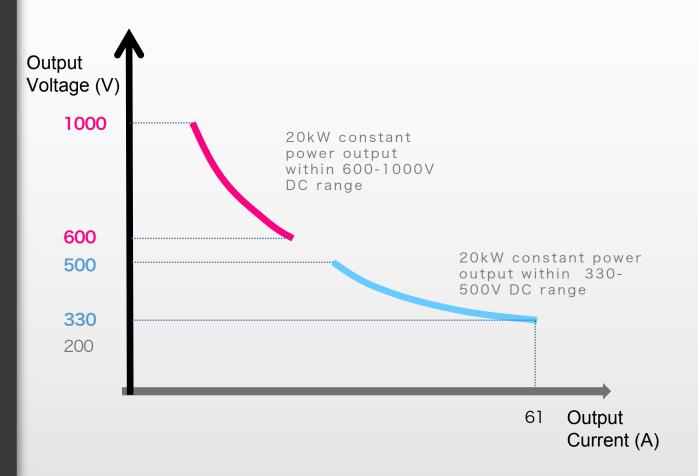
Appliation-level

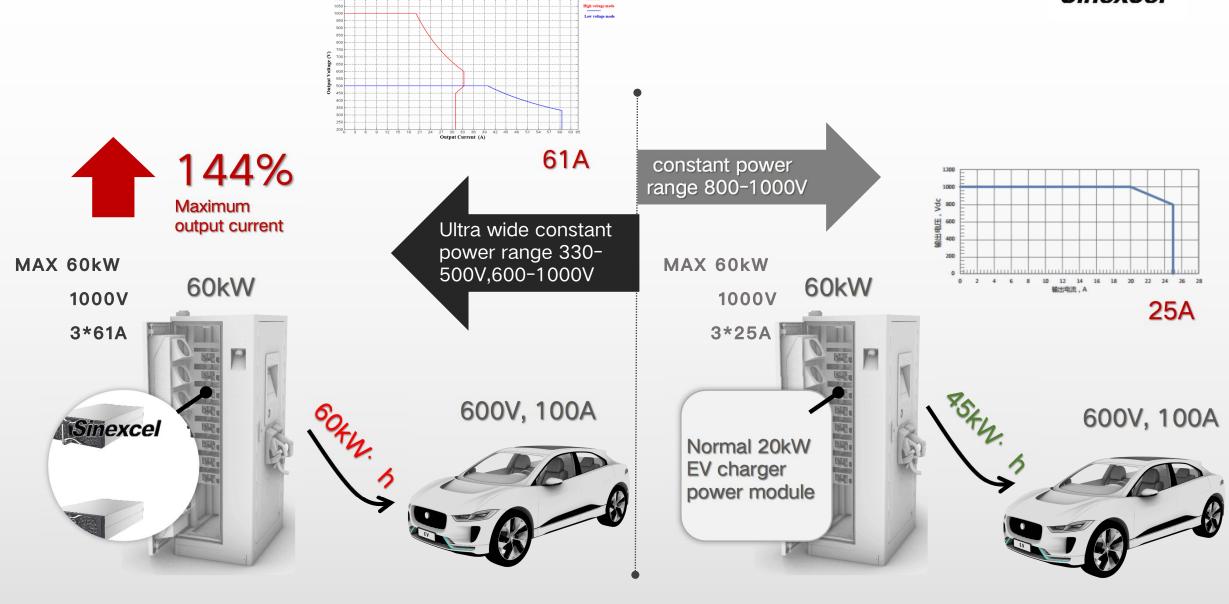
Constant power output speed up charging process

330-500V&600-1000V constant power dual output segment, achieves the maximum constant power range;

improves the power utilization ratio of DC charger, raises the operation efficiency, and maximizes carrier revenue.

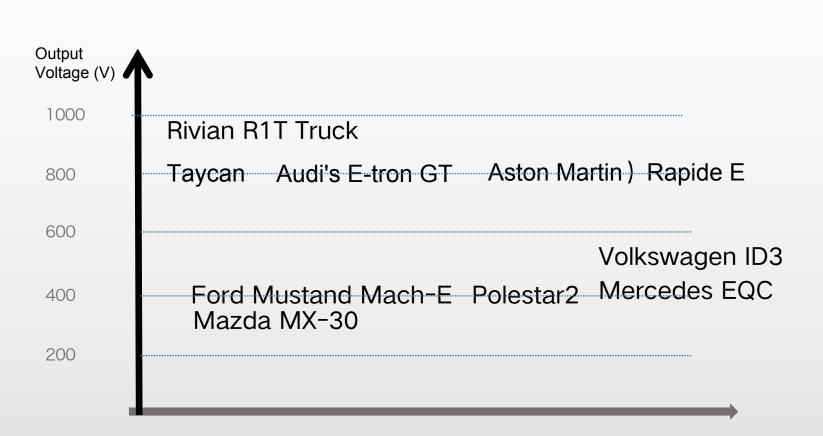
Sinexcel







EV Models 20kW Full power charging in Sinexcel charger module





Technical aspects of product



High Efficiency and Energy conservation Reduce operating costs.

Peak efficiency

≥95.6%

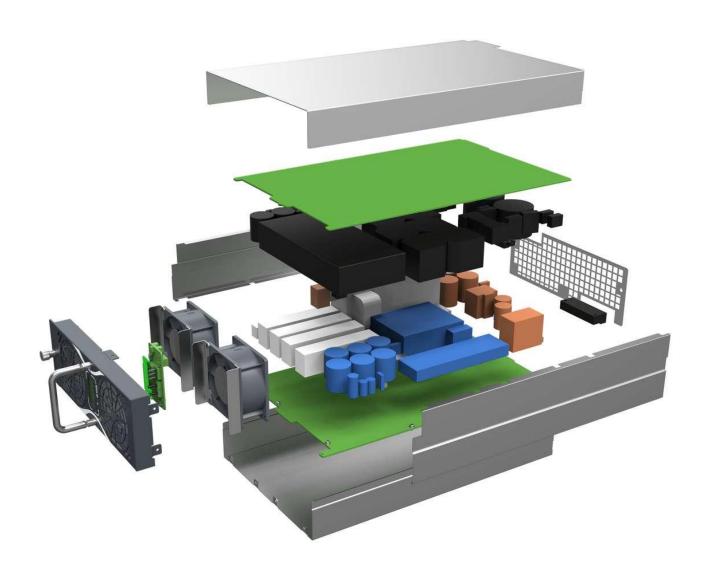
Reduce energy consumption loss, meet the requirements of energy saving and emission reduction. Power factor

>0.99
Infinitely close to the pure resistive load,

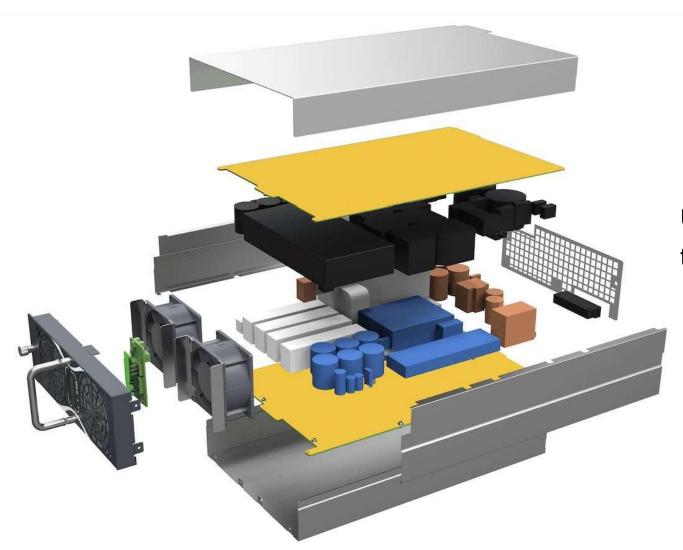
THDi

< 5%

Lower than the standard documentation requirement, such as the standard of Power Grid, achieve rational allocation of energy



The whole module design consideration of updated topology, using Full-Bridge Three-Level LLC topology.



Using Conformal coating thick film process to protection of electronic circuits.

Safety & High Reliability

Ease of use and maintenance

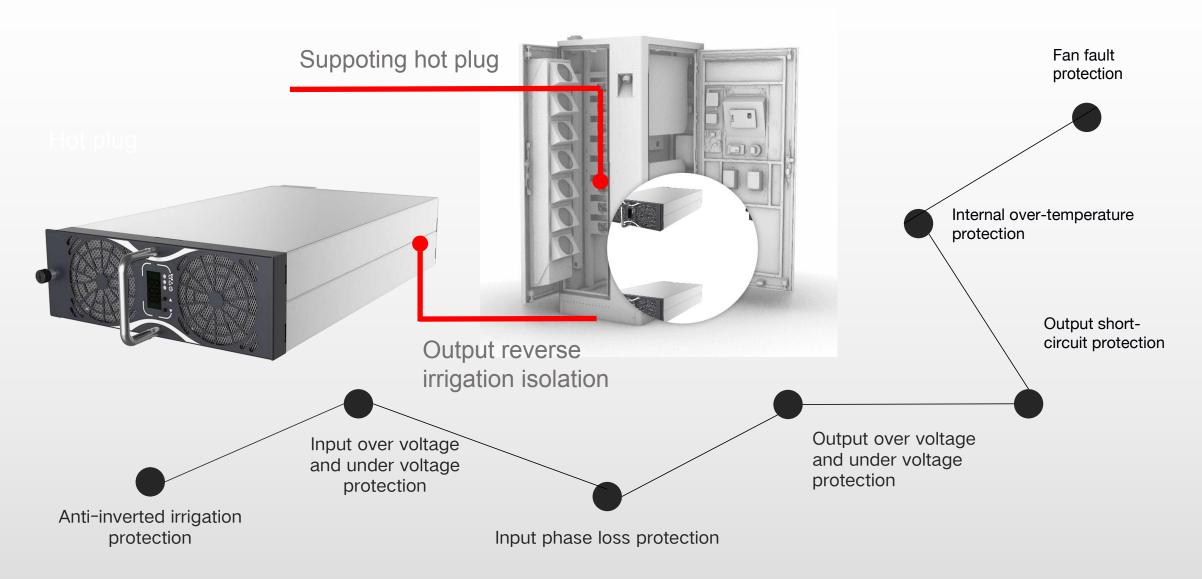
Isolation design

Output reverse irrigation isolation

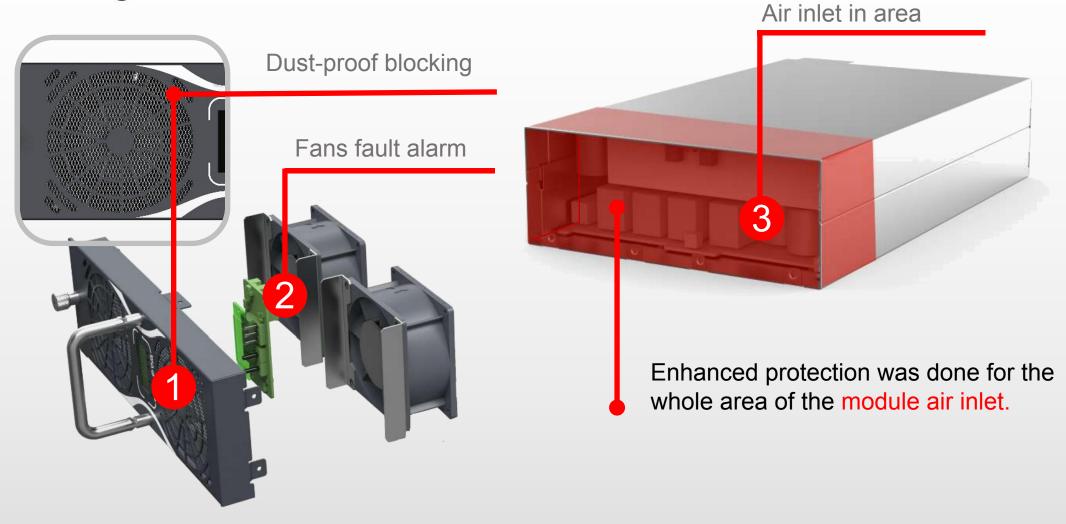
Hot plug

multipleprotection functions.

Safety & High Reliability

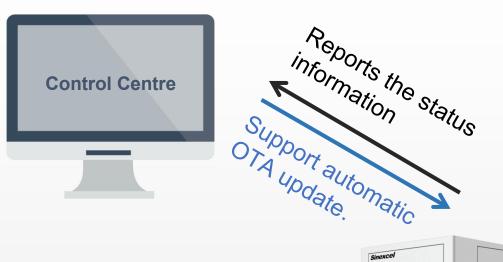


Intelligent control



Intelligent control

With the support of system, platform and network, the remote upgrade function can be realized based on module communication protocol.







Achieve orderly switching.

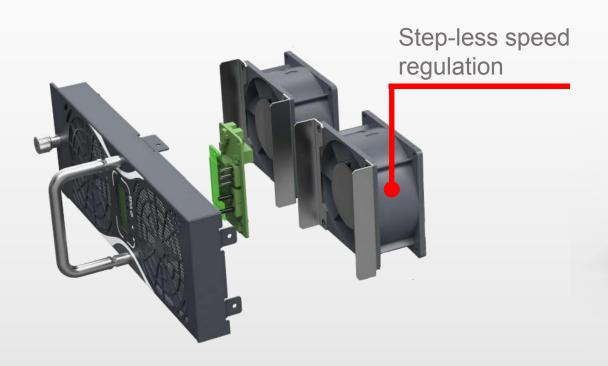
Supports remote fault detection and recovery.



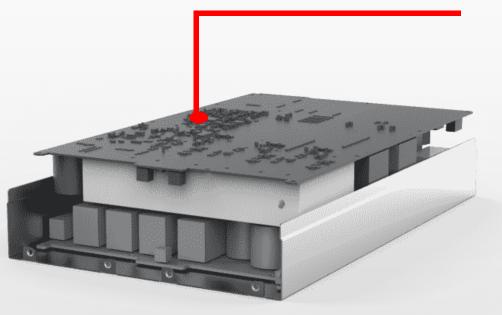


Low noise, Supporting Mute mode

- The noise can be reduced and maintained <55 dB.
- Solved the charging problem of noise-sensitive area.



Detected heating state



Case study

Global Applications

- France
- Poland
- Germany
- Hong Kong, China
- Taiwan, China
- Singapore
- South Korea
- Brazil
- Russia
- Malaysia
- Spain
- Italy
- Norway

•

Application scenario

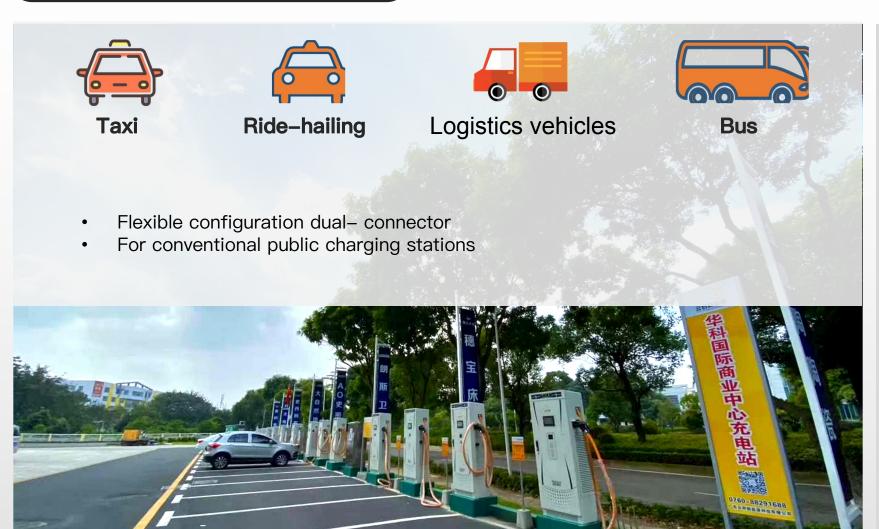
- Public charging station
- Bus charging station
- Battery swap station
- Ultra power charging stack





Case study Power applications

60-180kW Series





240-360kW Series

- Supports one
 Electric truck using
 two connectors
 charging
 simultaneously.
- Maximum flexible configuration four connectors.



240-360kW DC Charger



360kW DC Flexible Charging Stack



- Super bus Charging
- Supports up to 12 port outputs
- Flexible power distribution
- For super bus charging stations

Sinexcel





1800kW Intelligent flexible charging system



Equipment power up to 1800kW
Smart power distribution
All-in-one system solution
Enhance the profitability of charging stations, reduce investment costs and risks.

Sinexcel





Case study Scene applications

Public charging station

- Station owners can expand charging capacity without any stranded investment by adding Power Modules.
- Meet mainstream vehicle charging needs, Offering a premium charging experience.











Bus Charging station

- High power charging >180kW.
- High charging voltage, large demand current.











E-mobile charging station

- Charging services respond to demand more quickly, such as road rescue or other emergency charging services;
- EV Charger needs DC input, and also needs to have high seismic capacity.





