



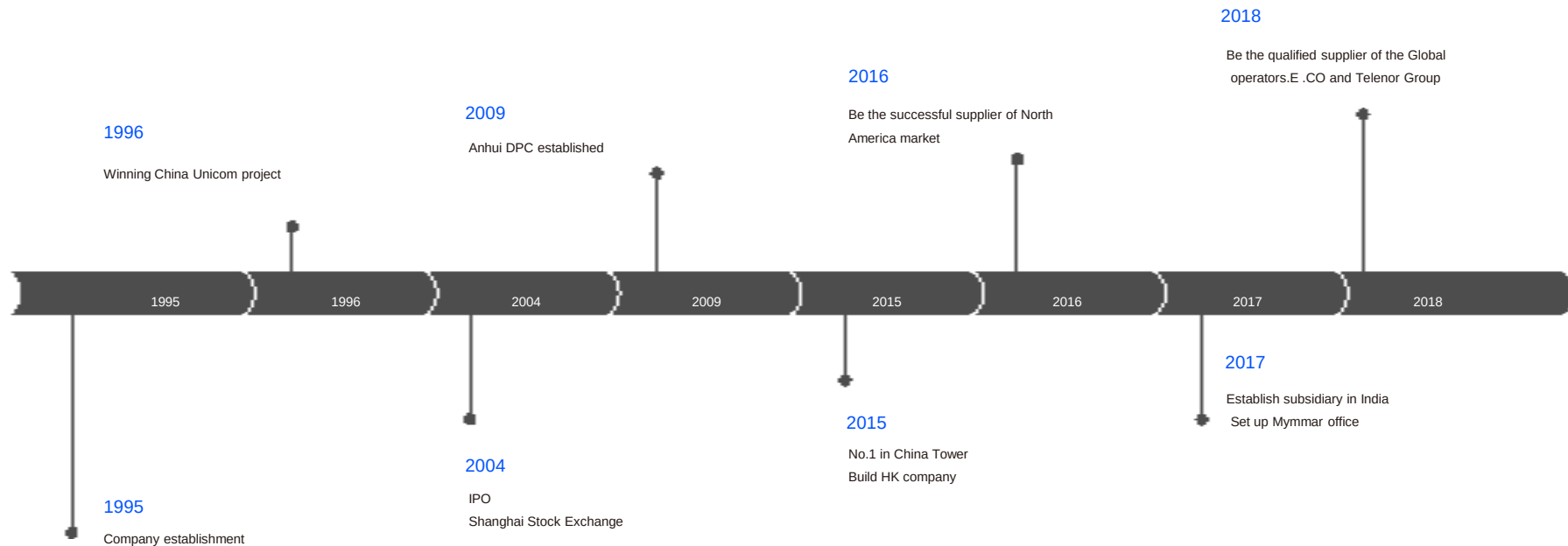
Dynamic Power

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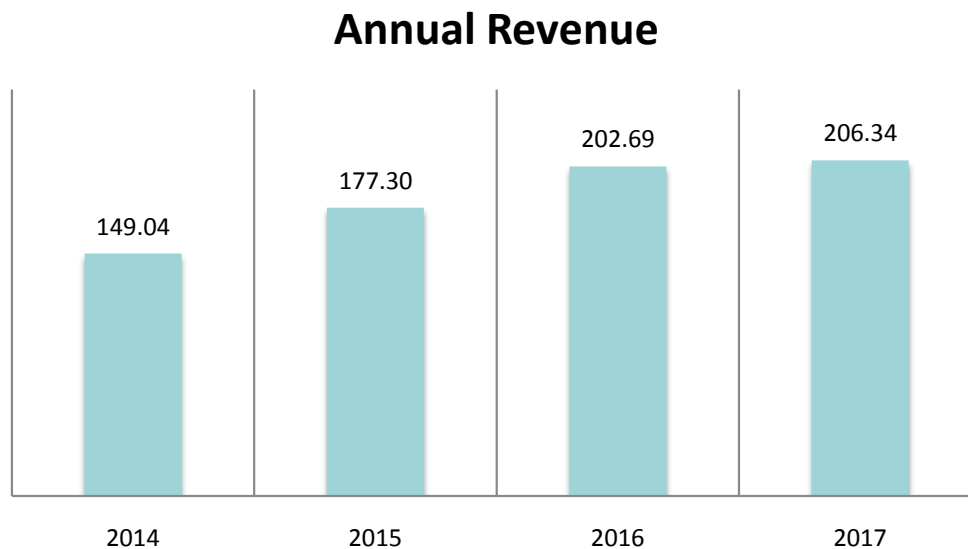
- 01. About Dynamic Power
- 02. Manufacturing Base
- 03. 5 Business divisions and customer list
- 04. International distribution

About **Dynamic Power**

- Established in **1995**
- China **first** public listed company in power supply industry, IPO in Shanghai Stock Exchange in 2004 (Stock Code: 600405)
- Registered capital: **US\$ 47.1** million
- **7** Subsidiaries, **30** offices in China, **6** offices abroad, 1 office in India, **4** R&D centers
- **3000+** employees
- **5** business divisions



Revenue from 2014 to 2017





**Headquartered in Beijing
With 7 subsidiaries**



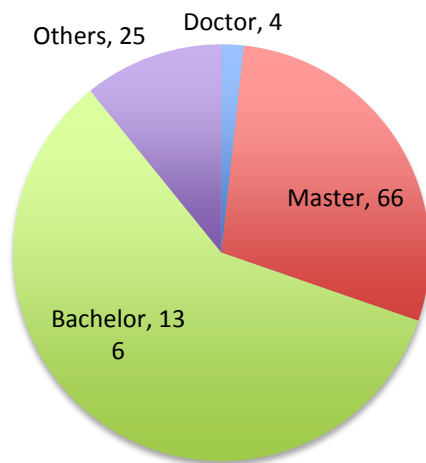


3 R&D Centers in China
Production base in Anhui

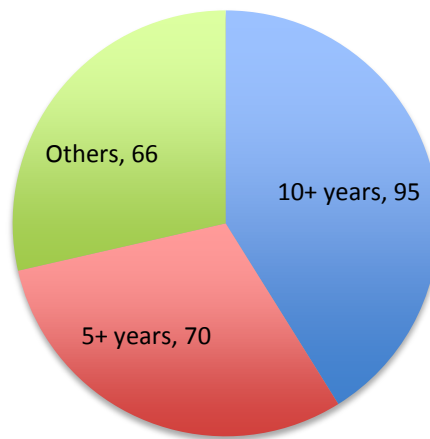


动力源鸟瞰图

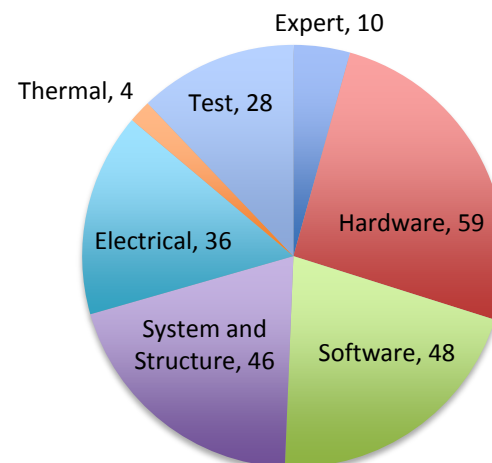
R&D Engineers



Education



Working Age



Job Position

Certificates

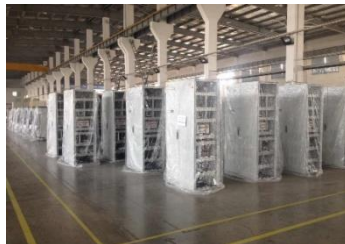


Manufacturing **Base**

“Smart Factory plan” in 2018

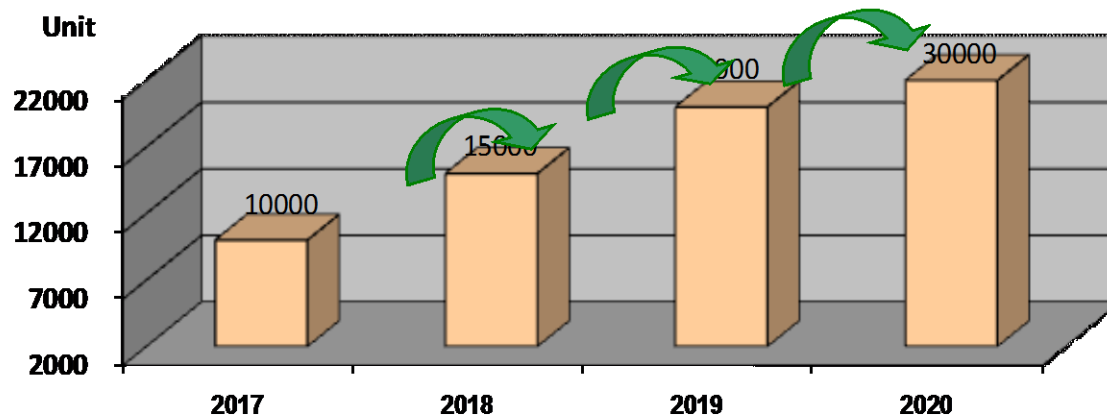
- New **110,000** m² Smart factory , **216,000** m² in total
Managed by **Cisco** platform
- **Smart** Logistic
- **Automatic** Production
- **Intelligent** Management





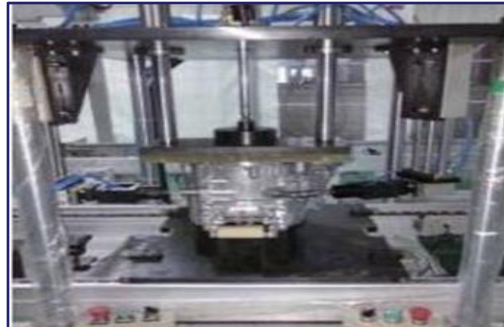
Production Capability Plan

Total Production Capability



3 Years milestone of Production capability

Year (Unit)	2017	2018	2019	2020
Total Production Capability/M	10000	15000	20000	30000
Rectifier Production Capability/M	45000	60000	90000	120000
system Production Capability/M	10000	15000	20000	30000



Advanced SMT production equipment, dual wave soldering machine and anti-static facilities, high-speed PHILIPS line, which ensure the efficient and fast delivery of controllers and vehicle power products.



Production Assemble



Single board Test



Wave soldering Line



Automatic Test



SMT



Three-Anti Painting

EMC and other reliability test labs



Shock Test

EMC and other reliability test labs



High/Low Temp & Humidity & Heating Test

EMC and other reliability test labs

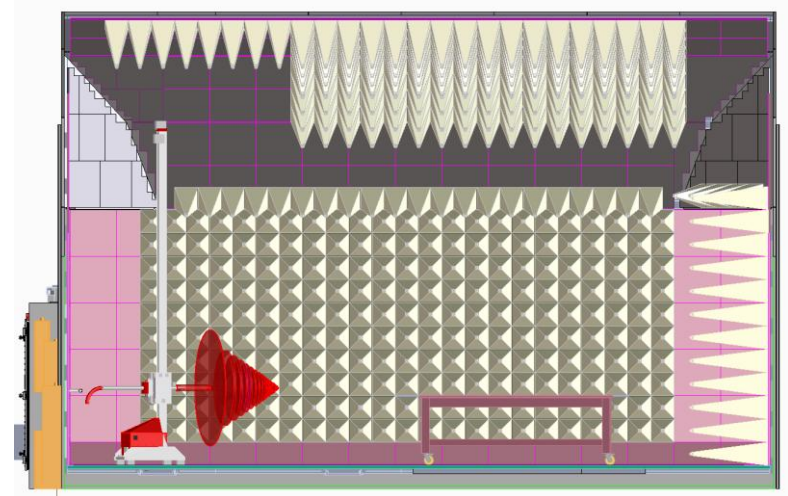
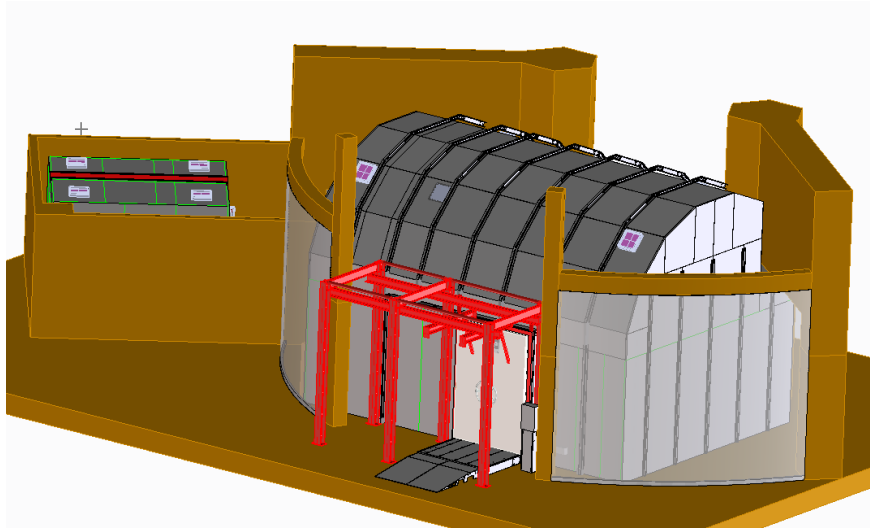


IP Protection Test



Lighting protection Test

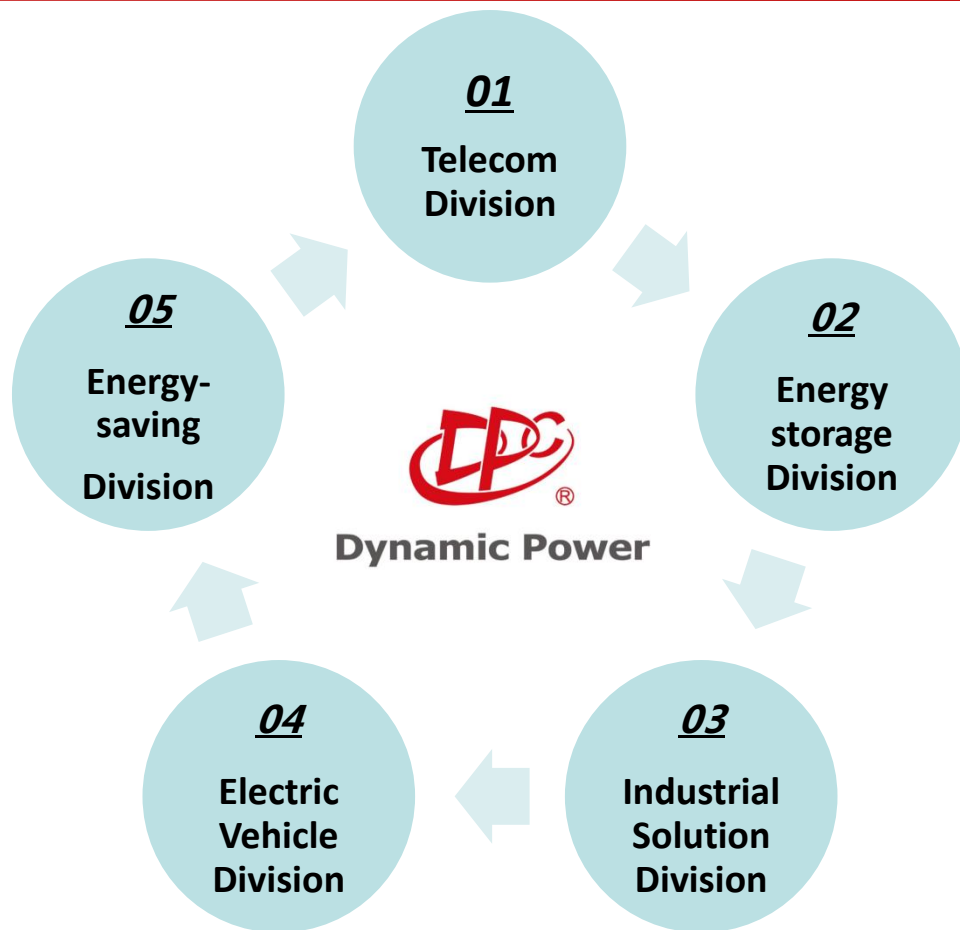
EMC and other reliability test labs



EMC lab, under construction

5 Business divisions and customer list

5 Business Divisions



Telecom Division



➤ Telecom power supply with **24** years experience

➤ **25%** Market share in China

➤ From 10A to **10000A** output

➤ Up to **98%** efficiency

➤ Volume supply to the mainstream telecom operator from The USA since

2016



Indoor & Outdoor for China Mobile , China

Telenor Group Global Frame Contract



- Cover Myanmar, Bangladesh, Pakistan, Cambodia, Malaysia, Thailand, Bulgaria, Denmark, Hungary, India, Montenegro, Norway, Serbia, Sweden
- Includes Outdoor, Indoor, Solar Hybrid power system, RMS, Telecom cabinet and relevant equipment and project services
- US\$ 4 million contract in second half year in 2018.



E.CO Global Frame Contract



- **Rank No. 1 in E.CO Group Global RFP**
- **Cover Myanmar, Bangladesh, Pakistan, Cambodia, Malaysia, Sri Lanka**
- **Finish delivery 450 sets System in E.CO Myanmar and 800 sets in E.CO Bangladesh;**





Won 2 years Contract in 2017

- 6,500 sets of Outdoor power system with air conditioner
- 6,50 sets of Indoor big capacity power system(48KW-100KW)
- 12,000 sets of RRU distributed power system with lithium battery.
- Now under the final approve process before batch supply





- Up to 600A power system homologated by Anatel, Brazil.
- 650+ sets of indoor & outdoor cabinets for Oi
- Local technical support & service team



Applications



Outdoor project for Sprint , The USA

Applications



Outdoor for Telecom Italia, Italy

Customer list



Customer list



Energy Storage Division



➤ **29** years experience in backup power market;

➤ Whole series (Solar+DG+Battery) hybrid backup power solution and energy storage power system from **5KW** to **1MW** for Industrial and commercial applications



➤ Emergency power from **1-500KVA** as the leading Supplier of **Beijing Olympic games** and **Shanghai World Expo**

1MWh ESS – Container Solution



Fire Compressor



EMS and BMS



PCS



- Bi-Directional PCS module:**
- 50KW rating each module;
 - 380Vac/200~750Vdc;
 - High reliability with Liquid cooling;
 - High Efficiency & Power density



Li-ion Battery

Bi-Directional PCS module

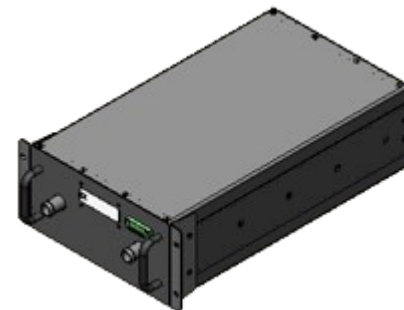
50kW Parameter		
DC SIDE	Voltage Range	600-850V
AC SIDE	rated power	50kW
	Rated voltage	380V
	Rated current	76A
OTHERS	cooling method	Air cooling
	Max efficiency	98.50%
	Operating temperature	-20~50℃



Air cooling: 300mm*450mm*192mm

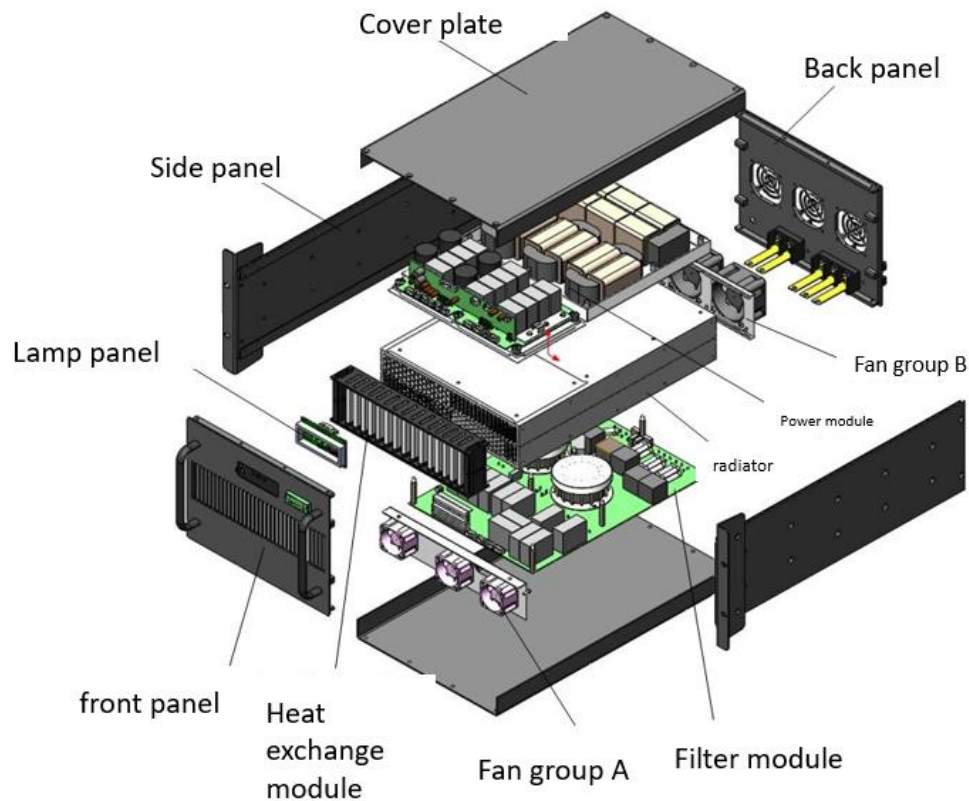
Bi-Directional PCS module

50kW Parameter		
DC SIDE	Voltage Range	600-850V
AC SIDE	rated power	50kW
	Rated voltage	380V
	Rated current	76A
OTHERS	cooling method	water cooling
	Max efficiency	98.50%
	Operating temperature	-20~50℃



(Watering cooling: 300mm*450mm*132mm)

50kW Parallel PCS module



Container cooling = Water cooling + air conditioning

- **Heat dissipation efficiency**

The water-cooled heat transfer technology transfers heat to the outside of the container through the circulation of the cooling liquid. Considering the heat dissipation medium, the specific heat capacity of the liquid is four times that of the air, which will greatly reduce the influence of the heat of the PCS on the battery and improve **the heat dissipation efficiency**.

- **Battery**

Closed containers bring more suitable temperatures and environments to the battery and increase the number of cycles of the battery.

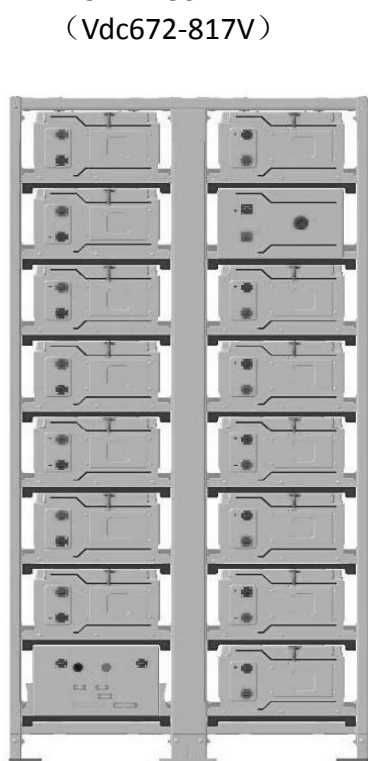
- **Maintenance**

Does not have any air exchange between the container and the outside world. There are no ventilation windows and dustproof cotton on the container. This reduces the cleaning and replacement time of the dustproof cotton, thereby saving the customer's maintenance cost and improving the convenience of operation and maintenance.

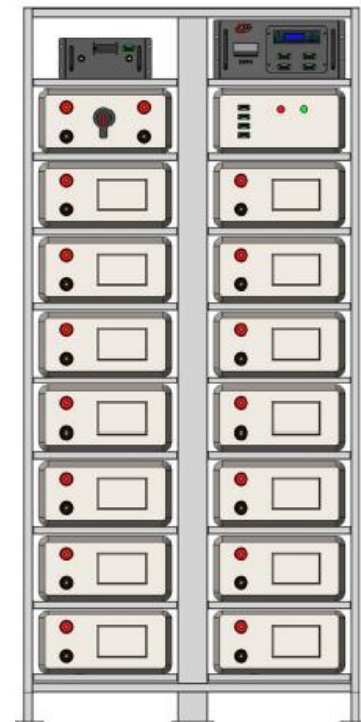
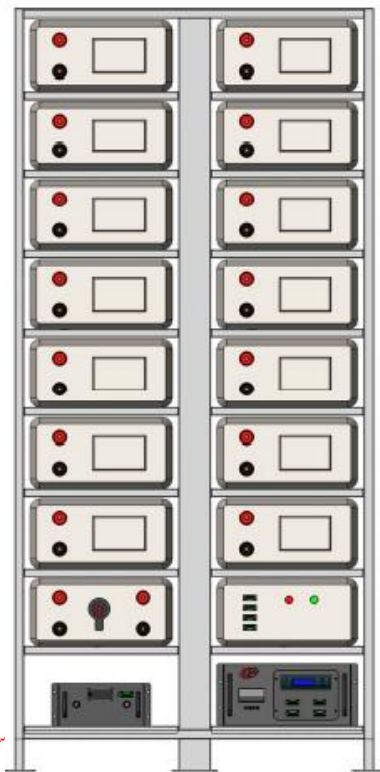
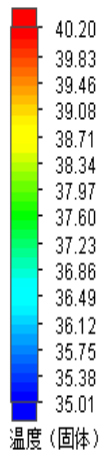


50kW Energy storage inverter + Battery cabinet

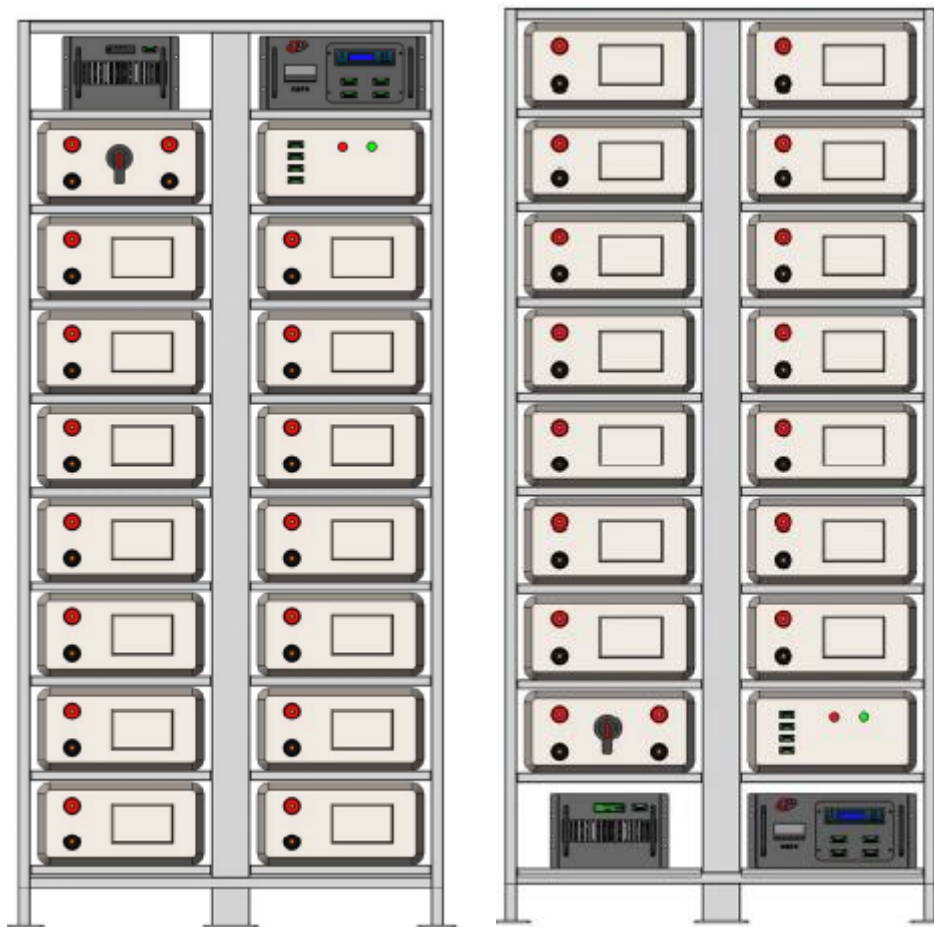
CATL 186kWh
(Vdc672-817V)



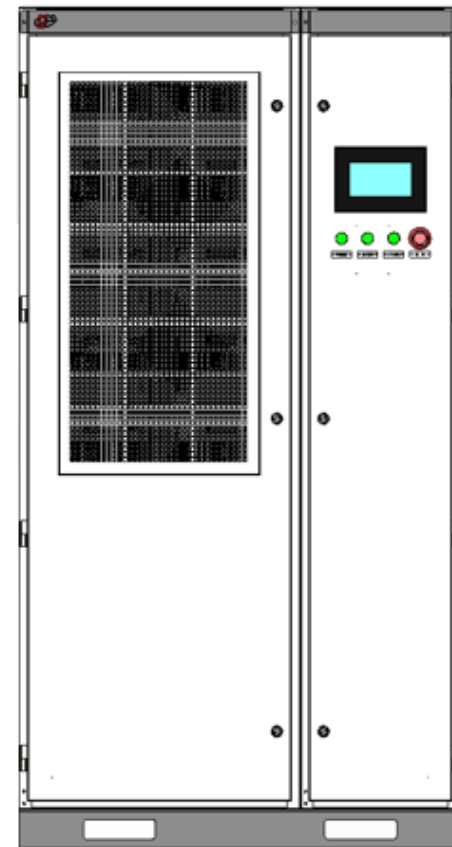
热仿真



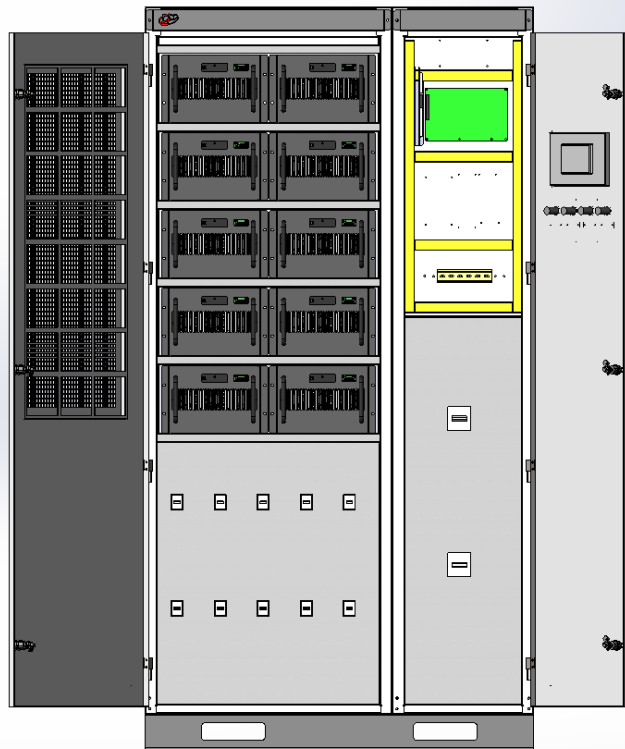
Air cooling solution



500kW Parameter		
DC SIDE	Voltage Range	600-850V
AC SIDE	rated power	50kW
	Rated voltage	380V
	Rated current	76A
OTHERS	cooling method	Air cooling
	Max efficiency	98.50%
	Operating temperature	-20~50℃

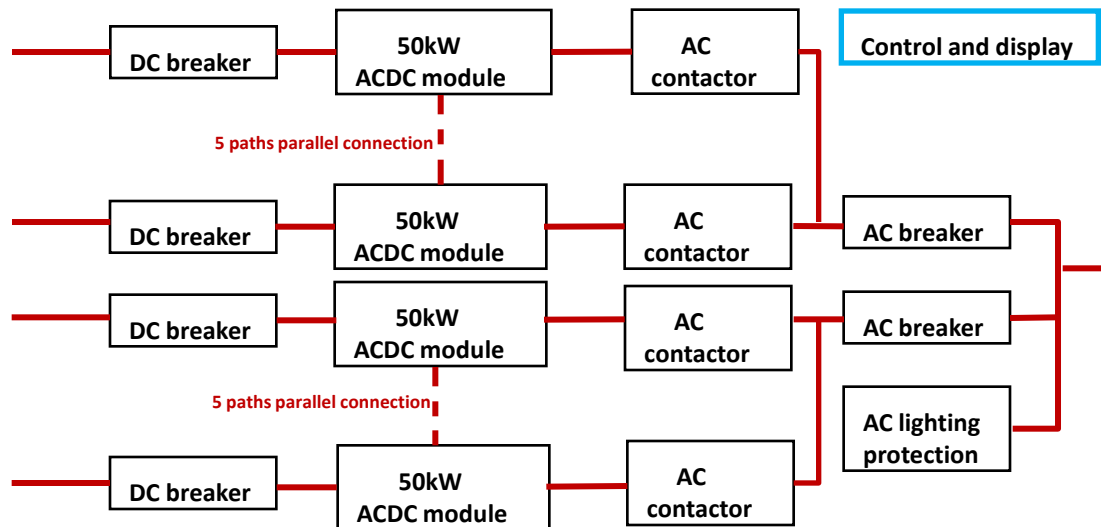


Realization of the second type: 500kW Energy Storage Inverter



1100*600*2100mm

Realization of Integrative:500kW Energy Storage Inverter



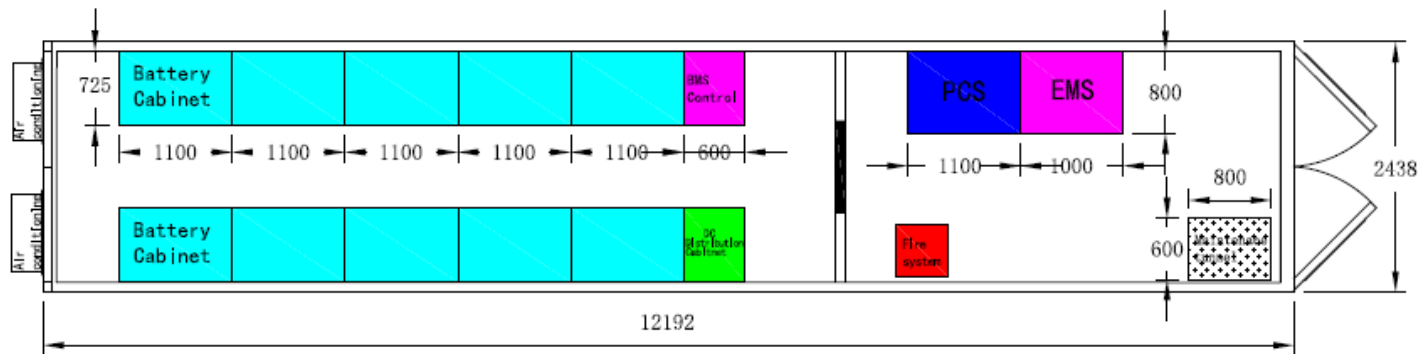
DC:10 paths input

DC combiner is omitted, cut down the battery series-parallel

AC:1 or 2 path output

Cost factor of expensive AC breaker

Easily split to 250kW pcs



Consideration of the integratige: (direct selling)

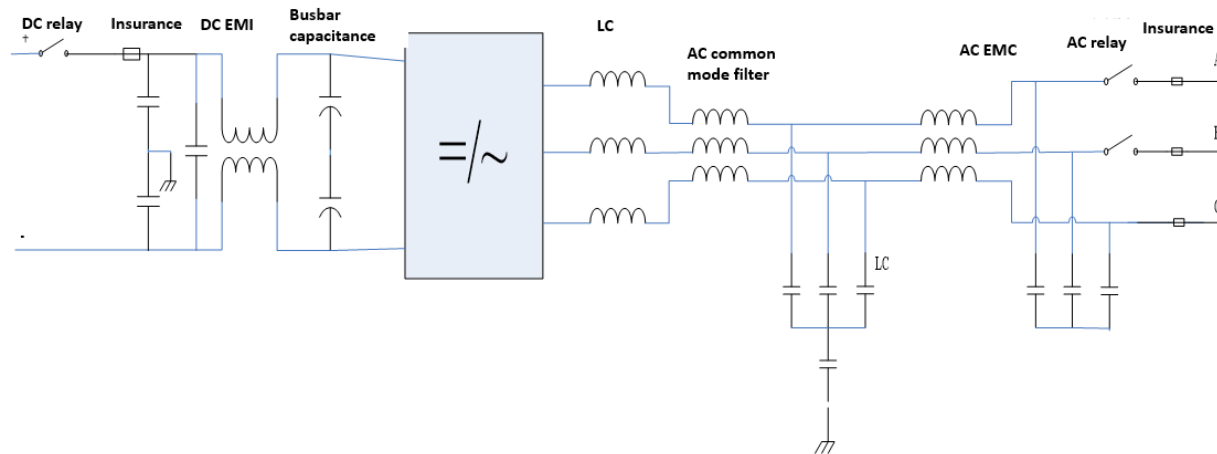
1) **Energy storage inverter is fire isolation from the battery cabinet;**

If the customer chooses the separate form, the PCS is the large capacity and integrative.

2) **The more series-parallel connection of the battery will seriously affect the charged and discharged cycles;**

DC, not connected in parallel, each battery cabinet corresponds to 1 channel PCS.

Main framework of hardware system



The left side of the system is the DC side and the battery is connected. The right side is the AC side and is connected to the grid. There are a total of 3 relays on the DC side and the AC side. These 3 relays use 1 control signal; the DC and AC sides use 4 channels of protection for short circuit protection; DC and AC each side have 1 pc EMC for filtering; DC-link of the busbar uses a combination of electrolytic capacitor and thin film capacitor to realize busbar support; the three differential mode inductors are integrated with the total mode inductor, and are attached to the heat sink to dissipate heat through the heat dissipation.

Industrial Solution Division



- **First** suppliers to achieve HVDC commercial use in China
- Same technology on 240V & 380 V rectifier, **Compatible** in system
- Oring diode in output, **high** reliability
- **Customizable** for users

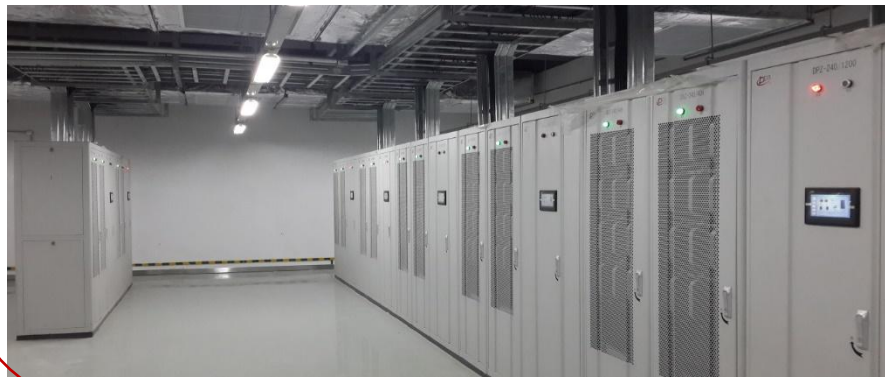
Applications



China Telecom Cloud Computing park



Applications



Applications



中国移动通信
CHINA MOBILE



China Mobile Data center

Electric Vehicle Division

1



2



3



4

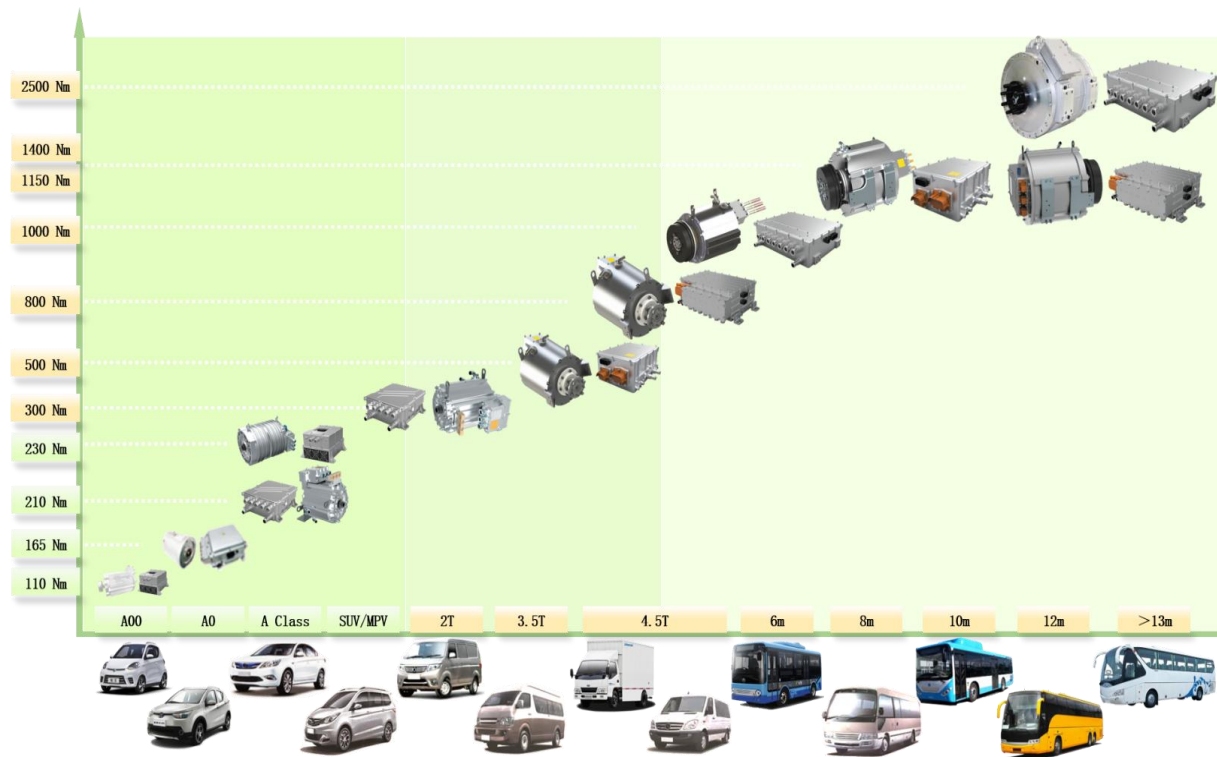


5



Electric drive system

- **Light electric vehicles**
- **Electric passenger cars**
- **Commercial electric vehicles**
- **Vehicle components**
- **Connector systems, charging cables**



EV Products

01 18 kW AC Asynchronous Motor

07 Six-in-One Controller

04 60 kW Permanent Magnet Synchronous Motor

02 30 kW Permanent Magnet Isolated Fuel Cell DC/DC Inverter

08 Isolated Fuel Cell DC/DC Inverter

05 75 kW Permanent Magnet Synchronous Motor

03 40 kW Permanent Magnet Synchronous Motor

09 Three-in-One On-board Power Supply

06 80 kW Permanent Magnet Synchronous Motor

Advantages of Isolated Fuel Cells

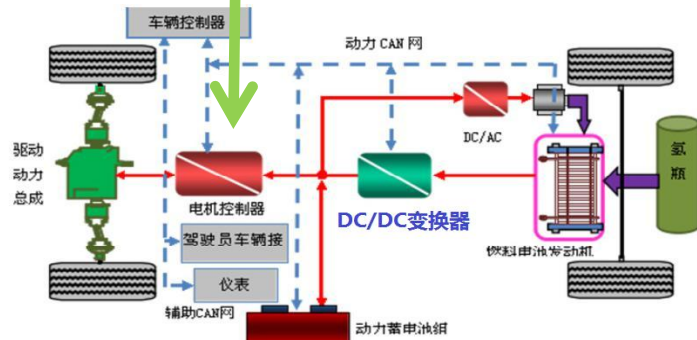


Advantages

- Various output voltage specifications adapt to different high-voltage power systems;
- Self-contained low voltage (24 V/12 V) output to meet the low voltage electrical needs of fuel cell;
- Support vehicle fault diagnosis, communication mode: CAN;
- Small size, lightweight, flexible to adapt to a variety of models;
- The input end is electrically isolated from the output end;
- The transient response of the system is fast and good;
- Resonant and soft-switching technology.

Isolated Fuel Cell DC/DC Inverter

- DC/DC inverter, as a key component of hydrogen fuel cell engine system, is used to boost the low-voltage DC output from fuel cell to high-voltage DC output, to provide electric power for electric vehicles, and to charge power batteries at the same time.
- DC/DC inverter achieves power allocation and optimal control among the vehicle's power systems by precisely controlling the output power of the fuel cell engine.
- Wide output voltage range: 250 VDC - 720 VDC (output voltage range can be customized as needed)



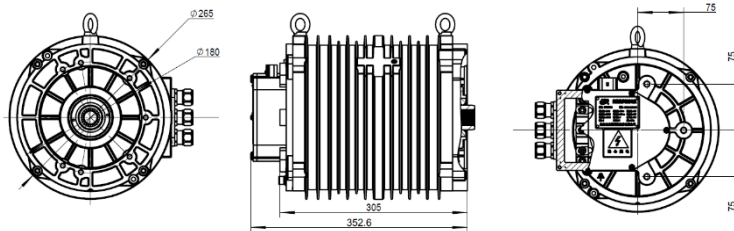
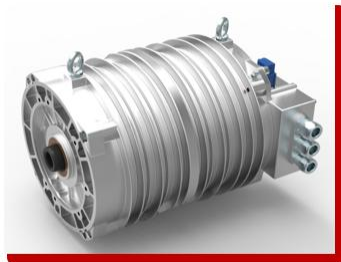
Advantages of Fuel Cell DC/DC Inverter



- Isolated, high security;
 - High ratio, boost ratio up to 1:12 ;
 - A variety of stack types
 - High efficiency ,above 96
 - High power density, 30% lighter
-
- The input end is electrically isolated from the output end;
 - Resonant and soft-switching technology.

Low Voltage Side	Rated operating point	60V*500A	100V*450A	150V*400A
	Input voltage range	60~120VDC	100~230VDC	150~320VDC
	Max. input current	500A	500A	400A
	Rated input power	30KW	45KW	60KW
	Max. input power	33KW(6min)	50KW(6min)	64KW(6min)
High Voltage Side	Output voltage range	Match with the voltage range of vehicle battery power, rated voltage range 250~750VDC (support customization)		
	Rated power point efficiency	96%		
	Overall efficiency@20%~100% load	95%		
Auxiliary Circuit Input	Input voltage range	9~36VDC		
	Stand-by power	≤20W		
System	Insulation Port	FC input, High voltage output, Low voltage output, Auxiliary input, communication port		
	Level of Protection	IP 67		
	Operating temperature range	-40~60℃		
	Highest altitude	4000m		
	Cooling method	Water cooling		
	Communication	CAN, support UDS		
	Reference standard	GB/T 24347, GB/T 18488, GB/T 18384, QC/T 413, QC/T 895, GB/T 18655, GB/T 17619		
Mechanical	Dimensions(W*D*H)	450*450*120mm		
	Reference Weight	28±0.5kg		

18KW AC Asynchronous Motor



Permanent Magnet Synchronous Motor



30KW



40KW



60KW



75KW



80KW

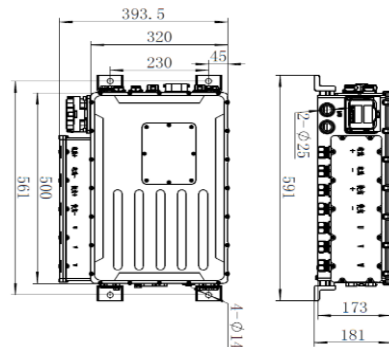
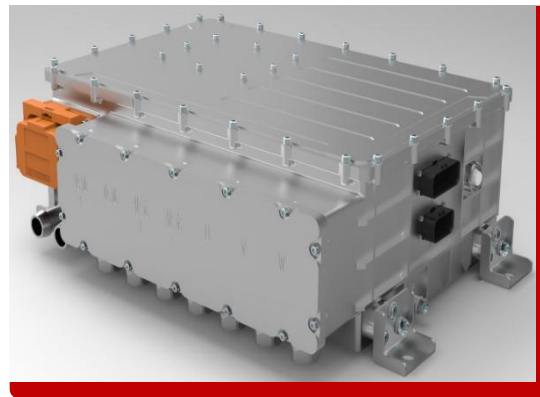
80 kW Permanent Magnet Synchronous Motor	
Item	Specification
Rated Voltage (VDC)	540
Rated Power (kW)	80
Rated torque (Nm)	670
Rated rotating speed (rpm)	1150
Peak power (kW)	150
Peak torque (Nm)	1150
Rotating speed Max. (rpm)	4500
Efficiency Max. (%)	96.5%
IP level	IP67
Insulation level	H
Cooling	Water cooling
working temp	-40~105
Working	S9
Dimension (mm)	φ385X335
Weight (kg)	148

Six-in-One Controller

The six-in-one controller consists of following high-voltage parts: motor controller, oil pump DC/AC, air pump DC/AC, DC/DC, high-voltage distribution box and insulation test module.

The whole motor is highly integrated, with a small volume, light weight, complete function, and the vehicle wiring is reduced to a great extent.

As one of the key components of new energy vehicle, the motor controller is used to invert DC of the power battery into AC and drive the load motor.



Six-in-One Controller	
Motor controller	
rated capacity	100kVA
peak capacity	200kVA
Rated input voltage	540VDC
Input voltage range	400~700VDC
Rated output current	250A
Short-time output current	400A (1min)
Max. efficiency	≥98%
Oil pump, Air pump DC/AC	
Rated capacity	6kVA
Peak Capacity	14kVA
Rated input voltage	540VDC
Input voltage	400~700VDC
Rated output current	15.6A
Short-time output current	19.6A (1min)
DC/DC	
Rated power	3kW
Peak power	3.3kW(6min)
Rated input voltage	540VDC
Input voltage range	250~700VDC
Rated output current	110A
Peak output current	120±10A
Efficiency	≥94%

Six-in-One Controller	
Insulation detection module	
Input voltage range	0~800VDC
Measuring resistance range	0~50MΩ
High-voltage distribution box	
Circuits contained	MSD、battery circuit, quick charge circuit, battery heating PTC circuit, air conditioner & pre-charging circuit, Electric defrosting circuit, negative circuit & positive circuit, and pre-charge circuit for negative and positive
System	
Auxiliary voltage	24V
communication	CAN
Dimension(W*D*H)	500×398×184mm
IP level	IP67
Operating Temperature	-40~85℃
Storage Temperature	-40~105℃
Cooling Method	Water cooling
Relative humidity	5%~95%, no condensation, no fog
Salt spray resistance	The test lasts for 48 hours and should work normally after the finished
Highest Altitude	3000m

Vehicle Controller Unit (VCU)

Vehicle controller unit (VCU) is the core control unit of new energy vehicle. It collects the information of energy system, brake system, transmission system, air conditioning system and other components, through analysis and calculation to manage, dispatch, and process, and achieves the functions of vehicle driving control, energy optimization control, brake feedback control and network management, etc.



On-board Buck DC/DC Inverter

As a key component of the power supply system of new energy vehicles, the on-board buck DC/DC inverter is used to reduce the output voltage of the power battery from high-voltage DC to low-voltage DC, to provide electric energy for each load of the electric vehicle, and to charge the 12 V/24 V battery at the same time.

Under the control of VCU, the output voltage is stable, the conversion efficiency is high and the reliability is high. At the same time, it has the functions of input over-voltage, under-voltage protection, output over-voltage, under-voltage protection, output short circuit protection, input anti-reverse connection protection and over-temperature protection.



Type	DBD015-336-12	DBD025-336-12	DBD030-500-24
Nominal input voltage	336Vdc	336Vdc	500Vdc
Input voltage range	200Vdc~500Vdc	200Vdc~500Vdc	250Vdc~750Vdc
Maximum input current	6.5A	11A	10A
Rated output power	1.5kW	2.5kW	3kW
Maximum output power	1.8kW(Peak power 6min)	2.75kW (Peak power 6min)	3.3kW (Peak power 6min)
Input discharge time	voltage drop (within 1S)≤60V	voltage drop (within 1S)≤60V	voltage drop (within 1S)≤60V
Low voltage output			
Rated output voltage	14V	14V	27V
Rated power point efficiency	≥93%	≥93%	≥94%
Rated output current	110A	178.6A	111.1A
Output voltage ripple	≤250mV (peak-to-peak)	≤250mV (peak-to-peak)	≤500mV (peak-to-peak)
System			
Protection level	/	Protection level	/
Communication Interface	CAN-BUS; UDS、BootLoader	Communication Interface	CAN-BUS; UDS、BootLoader
Range of working Temp	-40~85℃	Range of working temperature	-40~85℃
Storage temperature range	-40~105℃	Storage temperature range	-40~105℃
Cooling method	System cooling	Cooling method	System cooling
Wake-up method	CAN、Hard line enable、High voltage supply (optional)		
Reference standard	GB/T 24347, GB/T 18488, GB/T 18384, QC/T 413, QC/T 895, GB/T 18655, GB/T 17619		

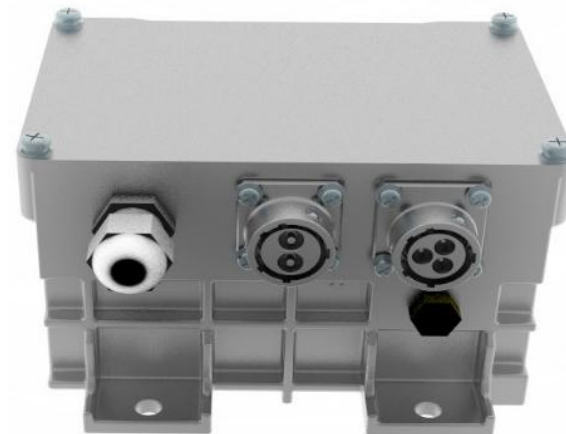
Insulation Detector

Real-time monitoring of insulation resistance, leakage position, contactor status, and transmission to instruments or other equipment through CAN. The highest voltage can be detected up to 800V, and the insulation resistance can be detected by low frequency AC injection method without considering bus voltage.



DC/AC Controller

The DC/AC controller is mainly used to control small electric motors such as steering pumps and brake compressors of new energy vehicles. Its small size and light weight save space for users. The process design is strengthened and the device selection is strictly controlled to ensure the reliability and mechanical strength of the product, thus suitable for various situations. This product uses intelligent temperature de-rating, over-temperature protection, and soft switching control technology.

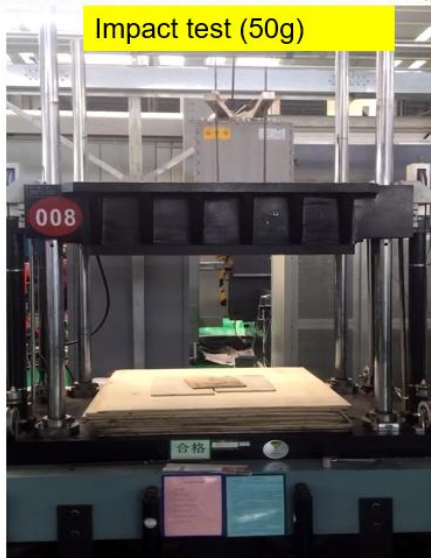


Test Device for EV Product

Random vibration test



Impact test (50g)



Waterproof rating test



Durability test (3000h)



In January 2019, at the China Electric Vehicles 100 People's Congress held at the Diaoyutai State Guesthouse in Beijing, Shenlong Bus, Futon Bus, Zhongzhi Fuel Cell Bus, and Beiqi Passenger Car were equipped with DC/DC products for fuel cells. Among them, 20 Shenlong buses were used as ferry vehicles.



Application, FOTON



Customer List

- Adapted to domestic and international mainstream stack and their system integrators;
- Has signed strategic cooperation and bulk supply agreement with us.



- Our products Application in domestic automakers



BAIC GROUP



ZHONG TONG
BUS



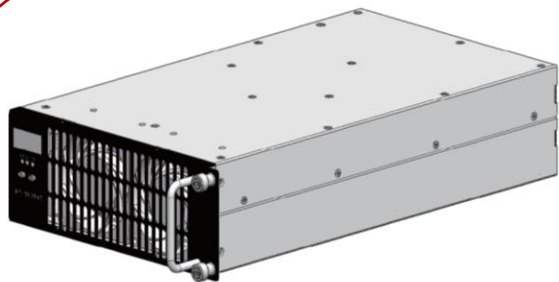
EV charging stations



Separate charging stations



Application for wall boxes & floor-type



15KW air cooling charging module



30KW liquid cooling charging module

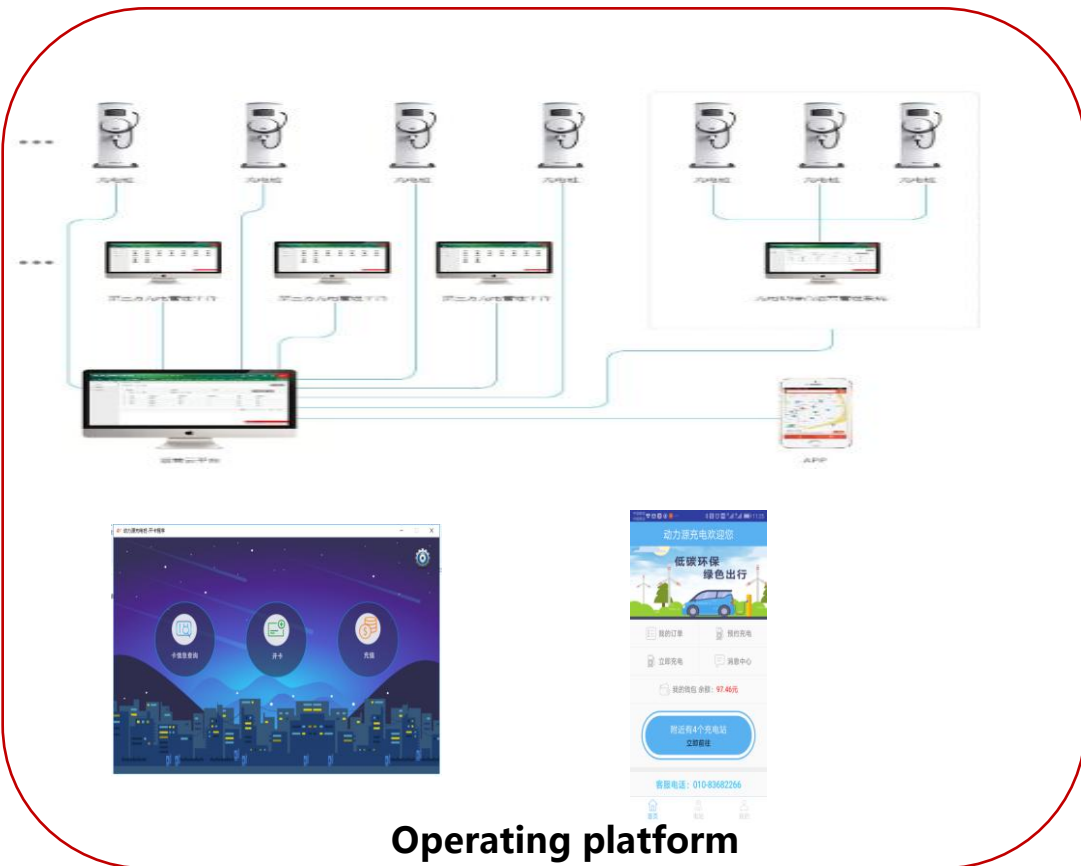


Components of independent research

Core component provider
EPC contracting/project development for charging infrastructure;
Engineering and design
Payment systems, ICT, software

Cloud services

- MA
- Business system
- Comprehensive analysis
- Basic data
- Tariff management
- Maintenance



Operating platform

Charging station products

Product	Capacity	Type	
AC Charging Pile	7kW	Single Charging Plug	Wall Mounted
			Floor Stand
	40kW	Double Charging Plugs	Floor Stand
DC Charging Pile	0-60kW	Integrated	Single Charging Plug
		Integrated	Double Charging Plugs
	60-120kW	Integrated	Single Charging Plug
		Integrated	Double Charging Plugs
	Big capacity (under 375kW)	Split	Single Charging Plug
		Split	Double Charging Plugs

DZY-750/30K Charging module (Liquid cooling)

Item	Explanation
Power level	30kW
Input voltage range	AC 380V -15% +20%
Input current harmonic	$\leq 5\%$
Power factor	≥ 0.99
Operating frequency range	45Hz-65Hz
The output voltage	DC200V-750V
Voltage regulation accuracy	$\leq \pm 0.5\%$
Machine efficiency	$\geq 96\%$
Standby power consumption	$\leq 5W$
cooling method	Liquid cooling
Communication Interface	CAN, Support module grouping
IP	IP54



Advantages

- Wide voltage range: Output voltage range 200~750V
- High efficiency, The highest efficiency is over 96%
- Hydro-isolation design
- Compact design, high power density

Advantages

- Wide voltage range: Output voltage range **200~750V**,
- Wide constant power section can meet the constant power requirement above **30kW and 600V**
- High efficiency : The highest efficiency is **over 95%**,
- Protection class up to IP55.
- The junction temperature of the liquid-cooled module **is 20~30°** C lower than that of the forced air-cooled module
- The liquid-cooled circuit is separated from the electric circuit



120kW liquid cooled intelligent DC charging pile

Input range	323–456 V AC, 45~65 Hz 230~322Vac Linear derating, 480Vac protection
Max output power	120kW
Output voltage range	200 V – 750 V DC
Max output current	200A
Max system modules	4
Charging module	
Max output power	30kW
Max output current	50A
Module standby power consumption	≤5W
Communication Interface	CAN2.0B, 125kbps/250kbps
Protection level	IP 54
System efficiency	95%
Power factor	0.99
Ripple current	iTHD < 5%
cooling method	Liquid cooling
Altitude	<2000 m
Operating temperature	-20° C to 50° C
storage temperature	-35° C to 70° C
Working humidity	5% to 95% @ 50° C No condensation
System size	1900 mm x 700 mm x 400 mm
System weight (without module)	250 kg
Module size	450 mm x 256 mm x 132mm
Module Weight	18 kg

Separate type liquid cooling DC charging series(360kW and below)



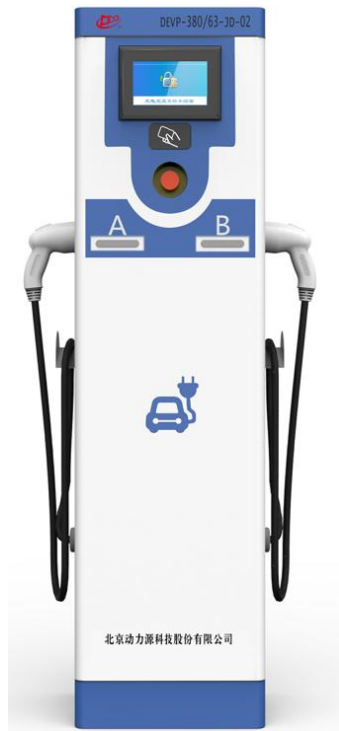
- Advanced thermal management concept and cutting-edge electronic circuit technology;
- **High power density, high voltage range, high power factor**, environmental adaptability and long life.
- Three-level active **PFC**, the latter stage uses an **LLC** topology, and uses **DSP** digital control to pass the liquid cooling technology of the cold water board.
- IP 54

ITEM	NAME	EXPLANATION
System specification		360kW
	Maxoutput power	360kW
Environmental parameters	Ambient temperature	-20℃～50℃
	Relative humidity	5%～95%
	Altitude	≤2000 m
AC input	AC voltage range	AC 323 V～AC 456 V
	AC input power frequency	50 Hz ± 1 Hz
	Power factor	≥0.99
	Harmonic current limit	≤5%
Output parameters	Output voltage range	200 V～750 V
	Single gun output power	30kW～180kW
	Constant power output	Constant : 600 V～750 V
	Voltage regulation accuracy	≤±0.5%
	Steady flow accuracy	≤±1%
	Voltage ripple factor	≤1%
	Output voltage setting error	≤±0.5%
	Output current setting error	≤±0.3 A
others	Heat dissipation	Liquid cooling
	Communication	CAN2.0B, 125kbps/250kbps
	Enclosure rating	IP55 (GB 4208-2017)
	Noise	≤60dB
	Dimensions	Charger 1400 (W) x900 (D) x2060 (H) mm Charging pile500 (W) x250 (D) x1500 (H) mm



60kW DC Charging Pile

Items	Electric Parameters	Items	Electric Parameters
Input voltage range	AC 380V $\pm$ 20 %	Output voltage	DC200V-500V DC250V-750V
Input current harmonic component	$\leq$ 5%	Stabilized current precision	$\leq \pm 1\%$
Power factor	$\geq$ 0.99	Stabilized voltage precision	$\leq \pm 0.5\%$
Input frequency	45Hz-65Hz	Efficiency	$\geq$ 94%
BMS auxiliary power supply	12V/20A or 24V/20A		
Charging Mode	Rated power charging, Timing charging, Ration charging, auto full charging, Reservation charging		
Man-machine interaction	Identity verification: IC card , QR code, DPC APP		
	Indicator lamp: full color LED light		
	Display: 7' TFT LCD touch screen (Can be expanded)		
Protection function	Emergency shunt down protection; Over voltage protection; Over current protection; Short circuit protection; leakage protection; lightning protection		
Environment	Working Temperature : -20℃~50℃ ; Relative humidity: 5%~95% (Without condensation) ; Altitude: <2000m (over altitude will derating)		
Communication interface	CAN/RS485/Ethernet/bluetooth/GPRS/3G/4G/WIFI (optimal)		
Charging Plug	Qty: 1 or 2		
IP Level	IP55 (outdoor)		
Safety	Leakage protection: <30mA insulation resistance: >10MΩ Insulation Withstand voltage: AC 2kV impulse withstand voltage: AC 5kV		



80kW AC Charging pile

Items	Electric Parameters
Input/output	Input voltage: AC 380V $\pm$ 20%
	Input frequency: 50Hz $\pm$ 2%
	Output voltage range: AC 380V $\pm$ 20%
	Rated output current : 63A $\times$ 2
Accuracy	Electric energy measuring accuracy: AC measurement, active power class 1
Man-machine interaction	Identity verification: IC card , QR code, DPC APP
	Indicator lamp: full color LED light
	Display: 7" TFT LCD touch screen (Can be expanded)
Charging Mode	Rated power charging, Timing charging, Ration charging, auto full charging, Reservation charging
Protection function	Emergency shunt down protection; Over voltage protection; Over current protection; Short circuit protection; leakage protection; lightning protection
Environment	Environment temperature: Working Temperature -20 $^{\circ}$ C $\sim$ 50 Altitude: <2000m; Relative humidity: 5% $\sim$ 95% (Without condensation)
Communication interface	RS485/Ethernet/WIFI/GPRS/3G (optimal)
Charging Plug	Qty: 2
IP Level	IP55 (outdoor)
EMC	Electrostatic discharge immunity: level 3 RFEMS: level 3
	Electrical fast transient immunity: level 3 Surge immunity: level 3
	Voltage dips and short interruptions immunity: level 3
Dimension	400mm $\times$ 200mm $\times$ 1500mm (W $\times$ D $\times$ H)

Energy saving Division



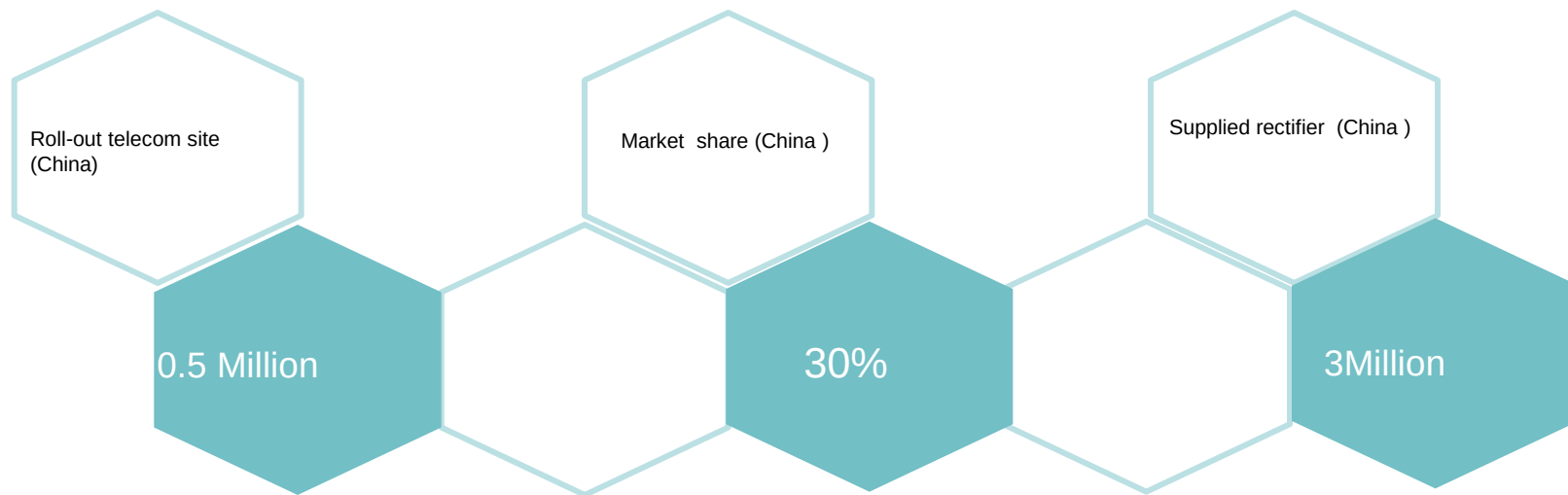
- Energy saving business since **2005**
- Both **Speed & Craft** governing by **EMC** mode
- DHINV Series HFD with Input **3kV to 11kV**,
drives motors from **200kW to 12MW**
- Power Factor > **0.95** ;
- Harmonic Distortion Rate < **4%**
- Power density > **100kW/ m³**
- More than **96%** efficiency

Applications

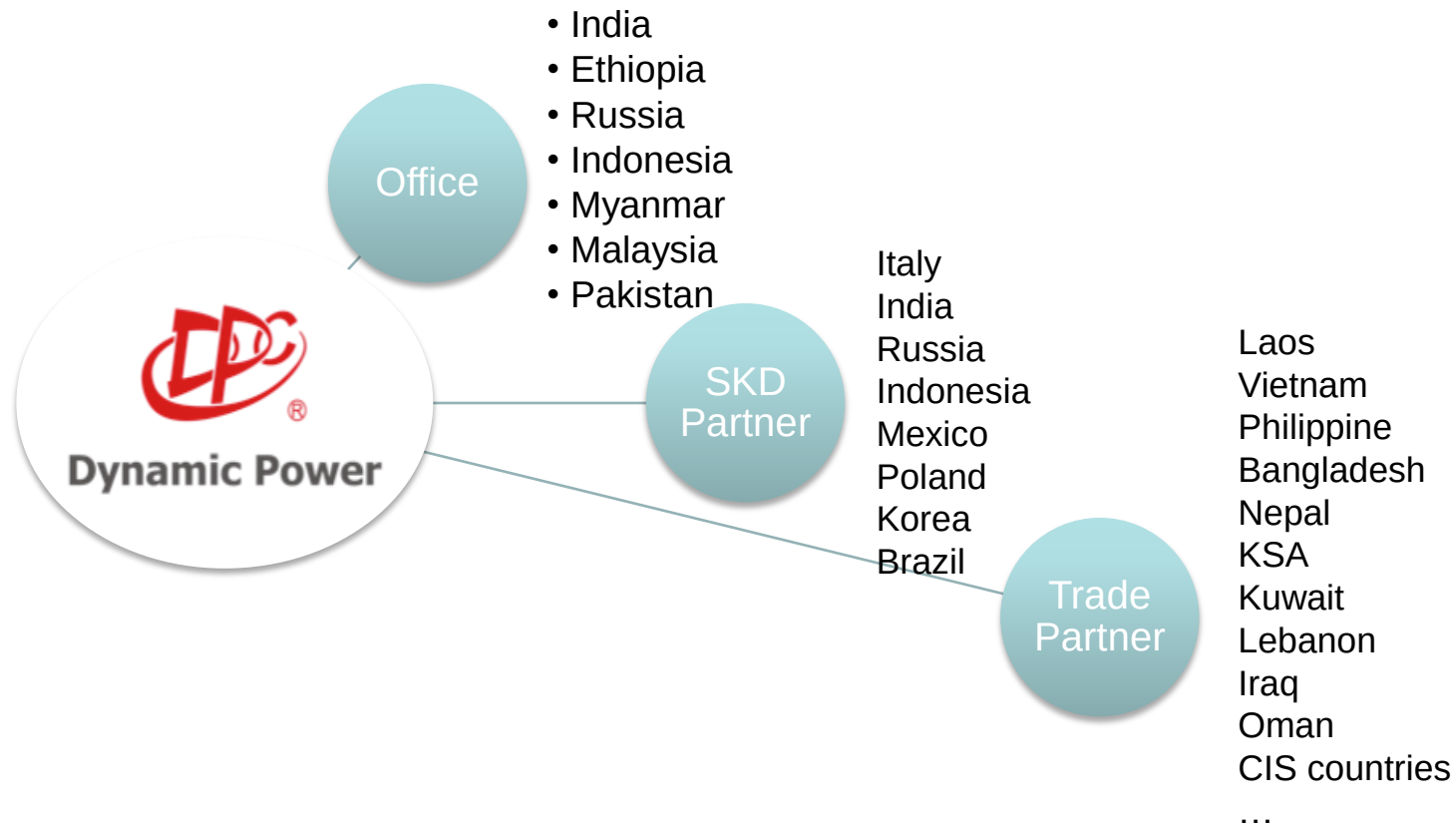


Overseas installation

Internation **distribution**



Application situation including tropic zone, temperate zone, cold zone. Location including island, plain, plateau.



Thanks!