



# 2023

**Beijing Yihongtai Technology Dev.Co.Ltd.**

**—— COMPANY PROFILE**



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PART

# 1 Enterprise Overview





## Enterprise Overview



### Beijing Yihongtai Technology Dev.Co.Ltd.

Founded in September 1999, Yihongtai is located in Cuihu Science and Technology Park, Zhongguancun, Beijing. A high-tech enterprise is an earlier power solution supplier integrating research and development, production and sales in China. With strong technical strength and product awareness, and has become an excellent partner of many well-known enterprises in China. Our products includes five series of nearly 2000 models, widely used in railway, electric power, network communication equipment, automation, instruments, monitoring and security and military fields, can provide a variety of on-board, open-frame, terminal, modular integrated power supply solutions.





## Enterprise Overview



### Beijing Yihongtai Technology Dev.Co.Ltd.

Yihongtai has 150 employees and modern standard workshop of 8000 square meters. With competent management personnel and high-quality professional and technical team, and over 20 years of production and R & D experience, we have established our competitive advantage in this field and become one of the main suppliers of switching power supply in China.

The company has a variety of advanced and complete R & D, testing and production equipment, with an annual production capacity of more than 2 million pieces.

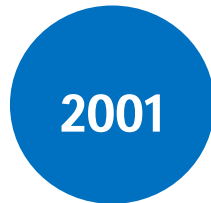




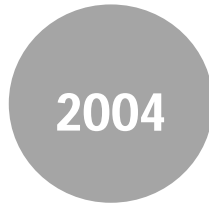
## Enterprise Overview



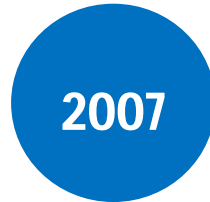
### Corporate Honor-System Certification



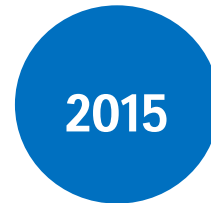
- ISO9001 : 2000 Quality Management System



- GJB9001A-2001 National military standard quality management system



- GJB9001A-2001&QC080000 Quality and environmental hazardous substances management system



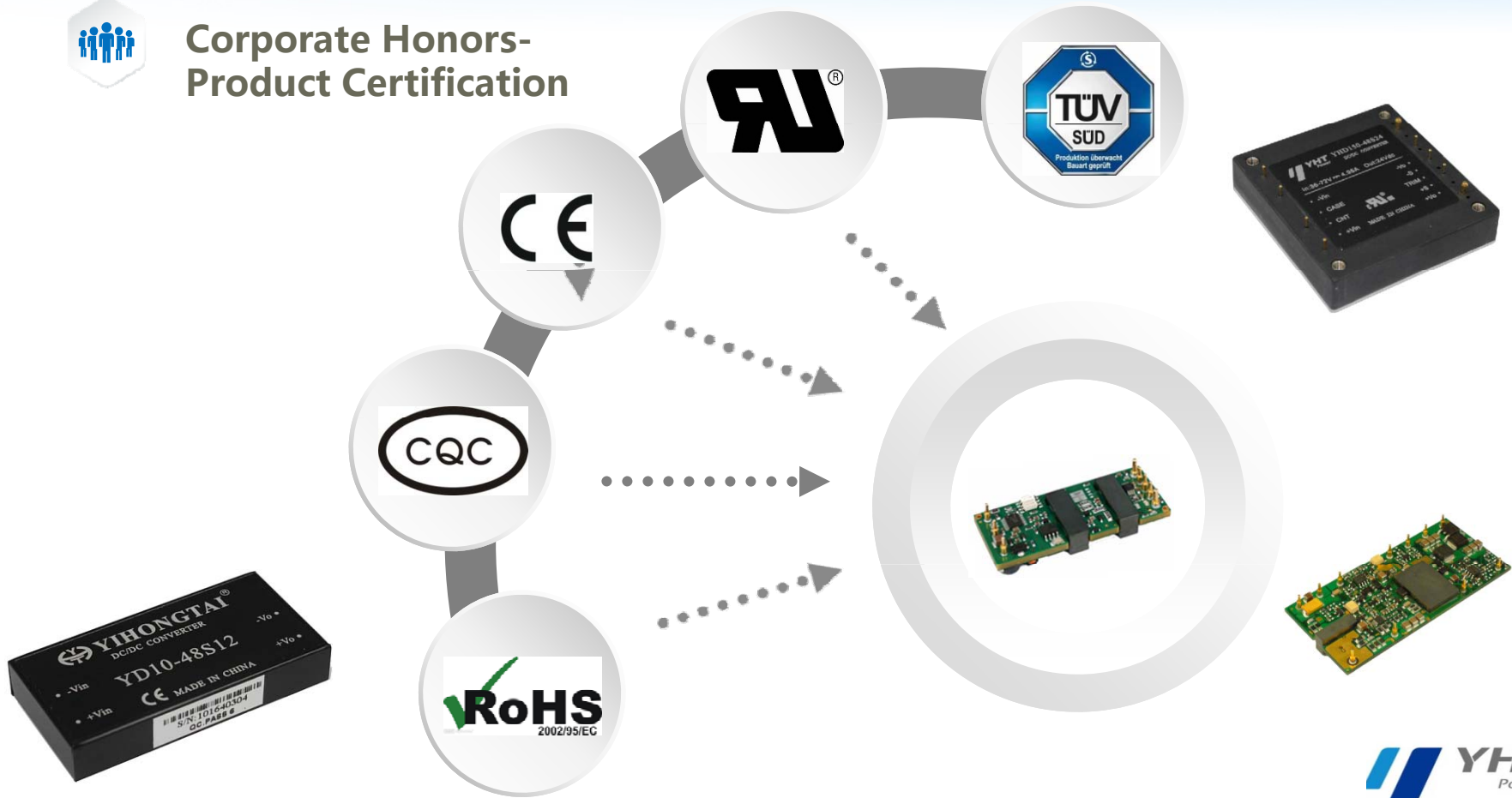
- China Quality Certification Center CQC Certification



## Enterprise Overview



### Corporate Honors- Product Certification

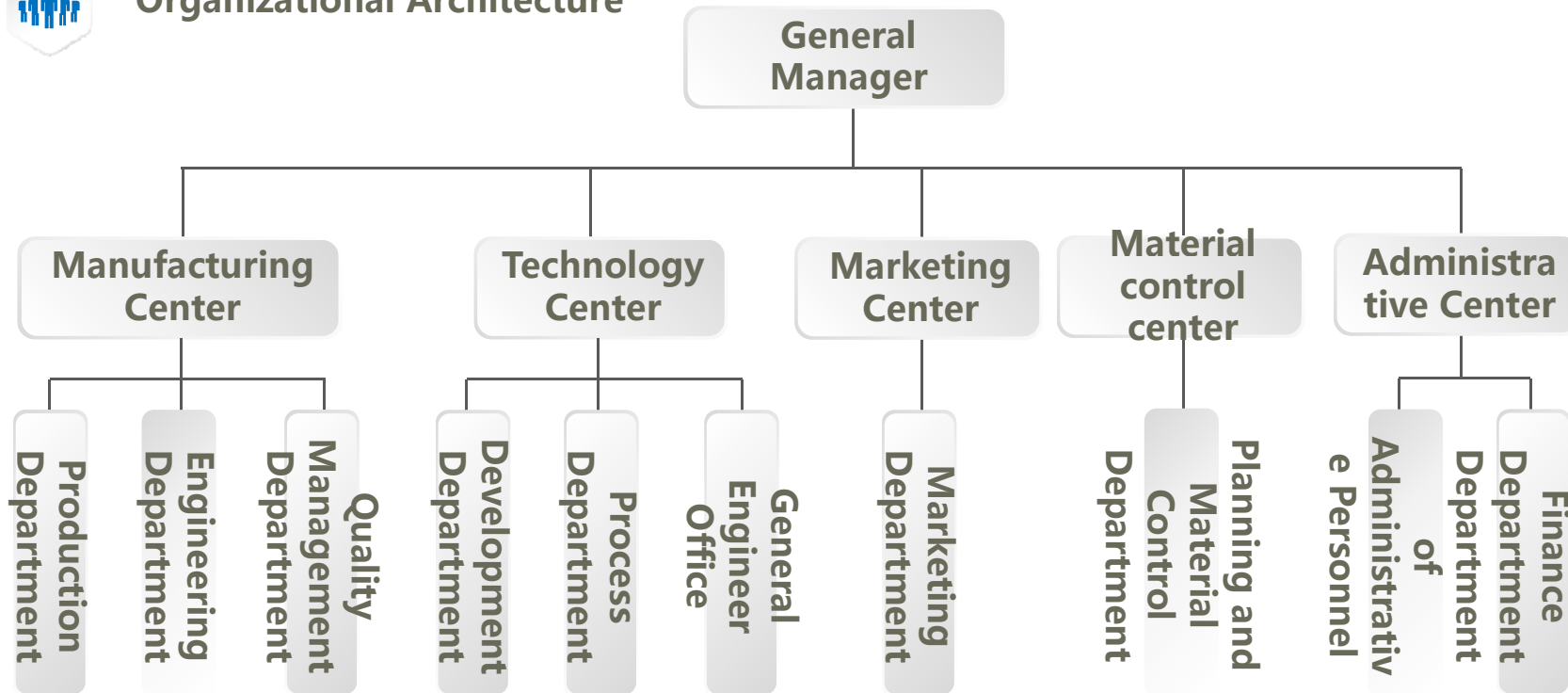




## Enterprise Overview



### Organizational Architecture



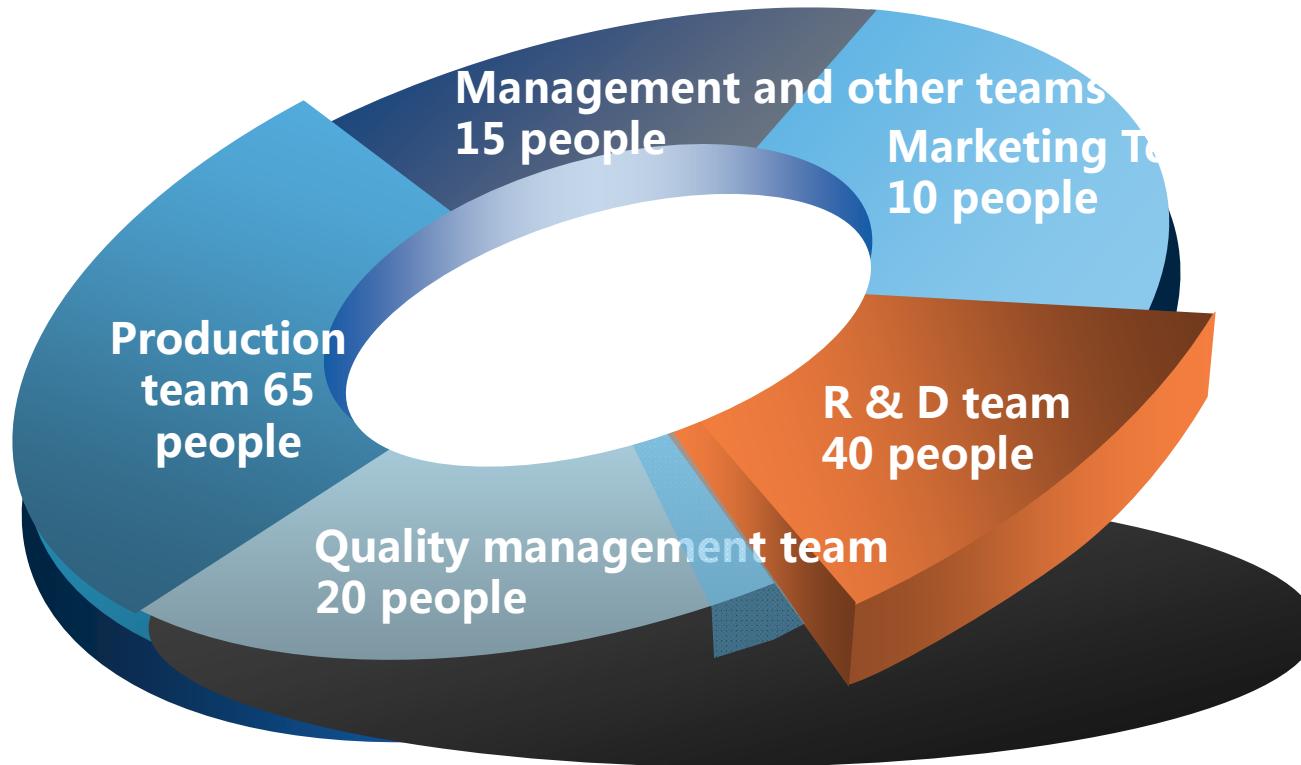




## Enterprise Overview



### Personnel structure



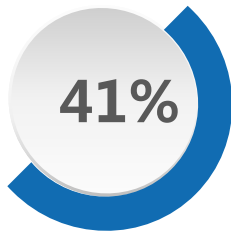


## Enterprise Overview

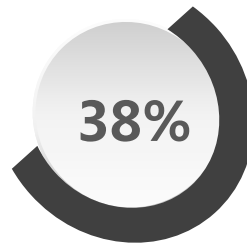


### Sales industry distribution

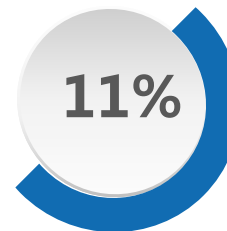
•Rail transit



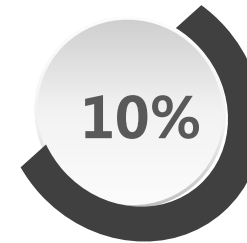
Photoelectric communication



Military industry



Electricity and others



PART **2** Product overview





## Product overview



### Product classification — conversion form overview

AC-DC Converter

1



DC-DC Converter

2



DC-AC Converter

3





## Product overview



### Product classification — installation form.

Open on board

1



On-board sealing type

2



Open -Frame

3



Rack mounting type

4





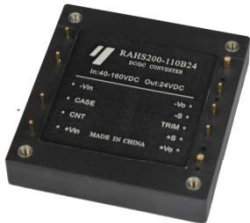
## Product overview



### Product Classification-Industry Standards

Rail transit

1



Electric Power

2



Military industry

3



Communication

4

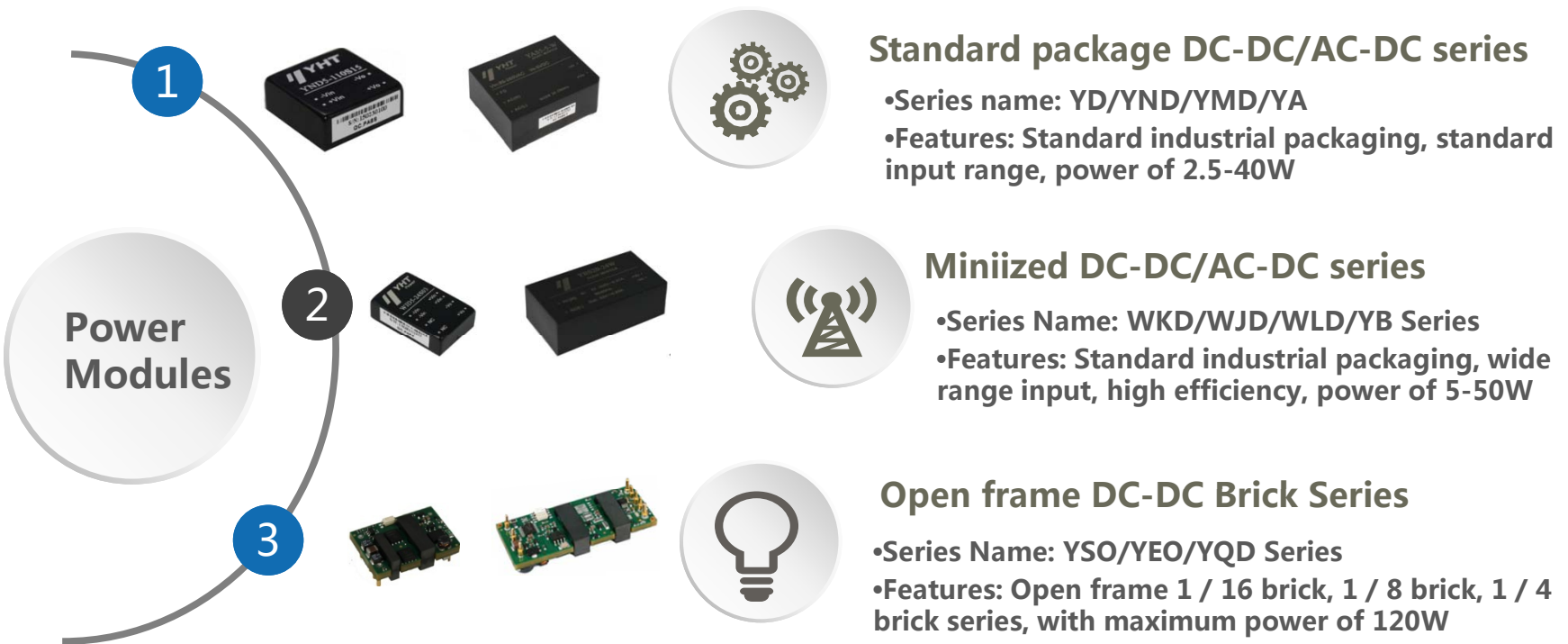




## Product overview



### On-board module power supply

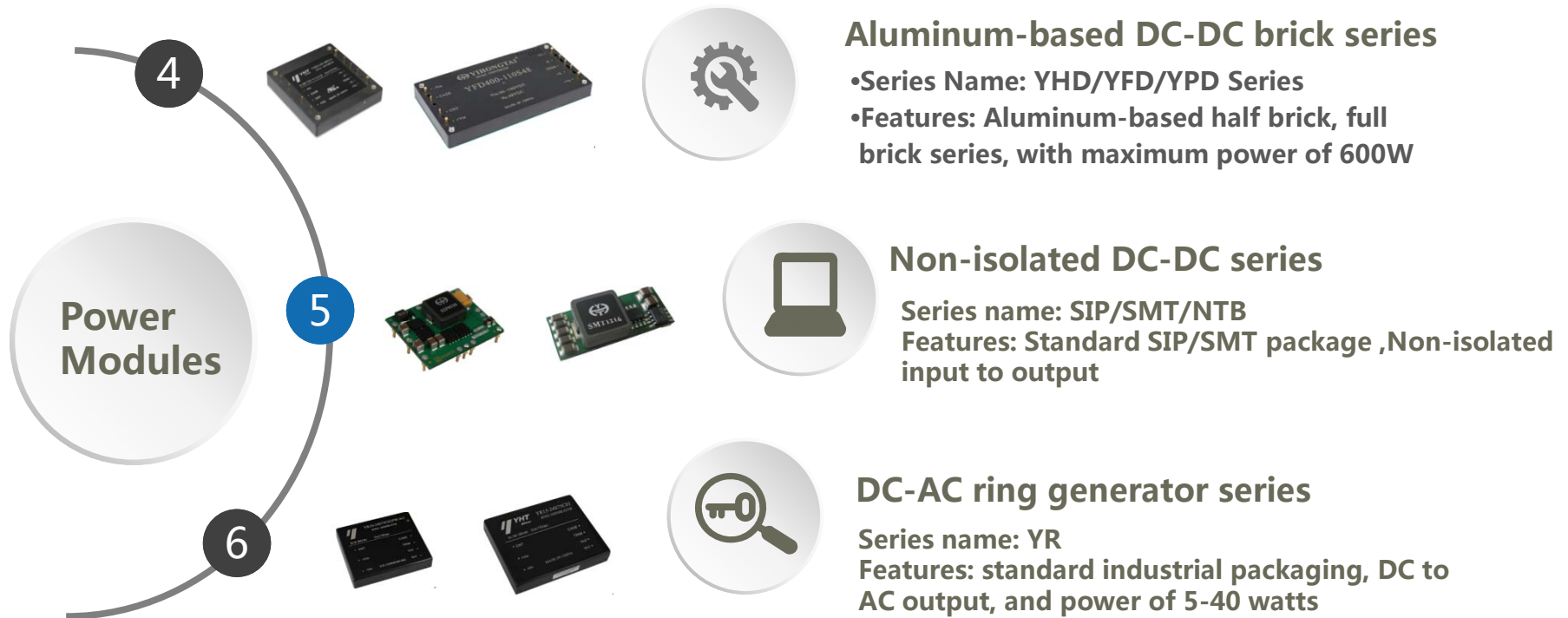




## Product overview



### On-board module power supply



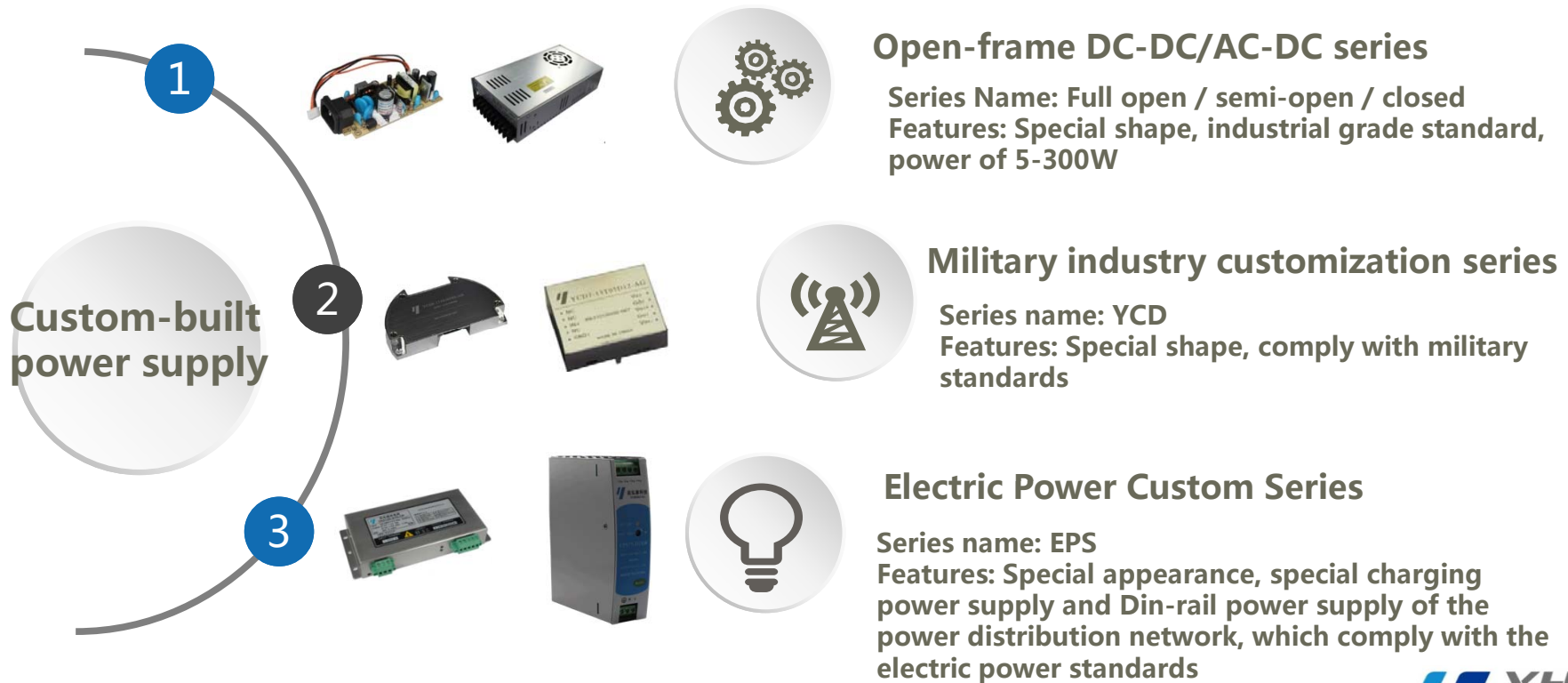




## Product overview



### Custom-built power supply

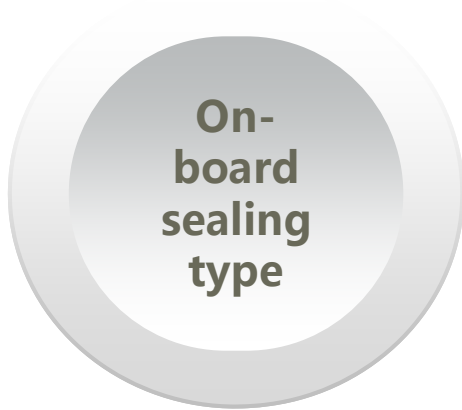




## Product overview



### Rail transit power supply-product road signs



5W~20W

1" × 1" volume



10W~20W

1" × 2" volume, center out pin



30W~50W

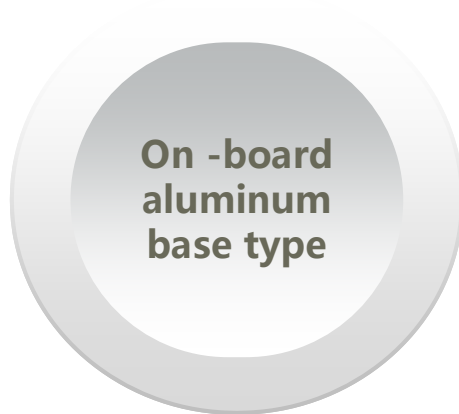
1" × 2" volume, with needles on both sides



## Product overview



### Rail transit power supply-product road signs



50W~150W

1/4 brick volume



100W~300W

Half brick volume



300W~600W

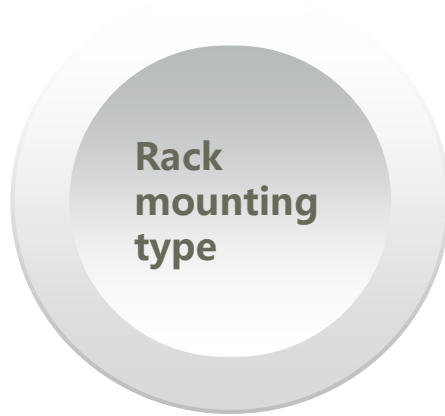
Full brick volume



## Product overview



### Rail transit power supply-product road signs



Rack  
mounting  
type



The EN50155/GB/T 25119 is satisfied  
Output the redundant backups  
Low turn-on surge start-up current  
Enter anti-back protection



## Product overview



### Rail transit power supply-product road signs





## Product overview



## Rail transit power supply-product road signs



Rail transit power supply voltage monitoring recorder

Target voltage display and recorded

Clock management

Fault alarm



## Product overview



### Rail transit power supply-design standard

#### Industry standards

《EN50155/IEC60571 Railway applications-Electronic equipment used on rolling stock》

《GB/T 25119-2010 Rail transit locomotive and vehicle electronics》

#### Enterprise Standards

《 YHT/SJ 007A Technical requirements for the railway power supply》

《Q/HDYHT 0001-2018 DC-DC module power supply 》

《Q/HDYHT 0003-2018 AC-DC module power supply 》



## Product overview



### Rail transit power supply- Technical characteristics

#### Application environment



Temperature range-40-+85°C,  
9~36V and 40-160V wide range  
input, PCBA all three coating

#### Safety standard requirements

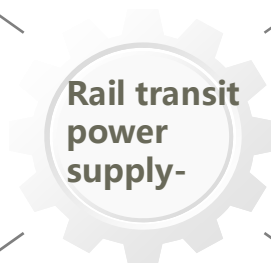


Meet input/output ,input/shell  
isolation 1500Vac

#### EMC requirements



Rack mounting type and customized power supply  
with EMC protection circuit, can match the  
customer complete machine system through  
EN50121/GB/T24338 related EMC standard



Rail transit  
power  
supply-

#### Reliability verification



**Appearance structure:** vibration, impact, drop,  
acceleration, pin tension, etc.

**Black box test:** EMC test, safety gauge test, switch  
machine test, high / low temperature test,  
temperature transformer test, high temperature, hot  
and heat test, long life test, etc.

**White box test:** internal safety gauge test, MTBF life  
assessment, electrolytic capacitance life assessment,  
loop stability test, voltage / current / temperature  
stress test.

#### Quality control



Establish Preferred Material Library  
for Railway, aging at minimum 48  
hours and regular type test



PART

3

# Rail transit industry applications



# Rail transit industry applications

## Rail transit customer group

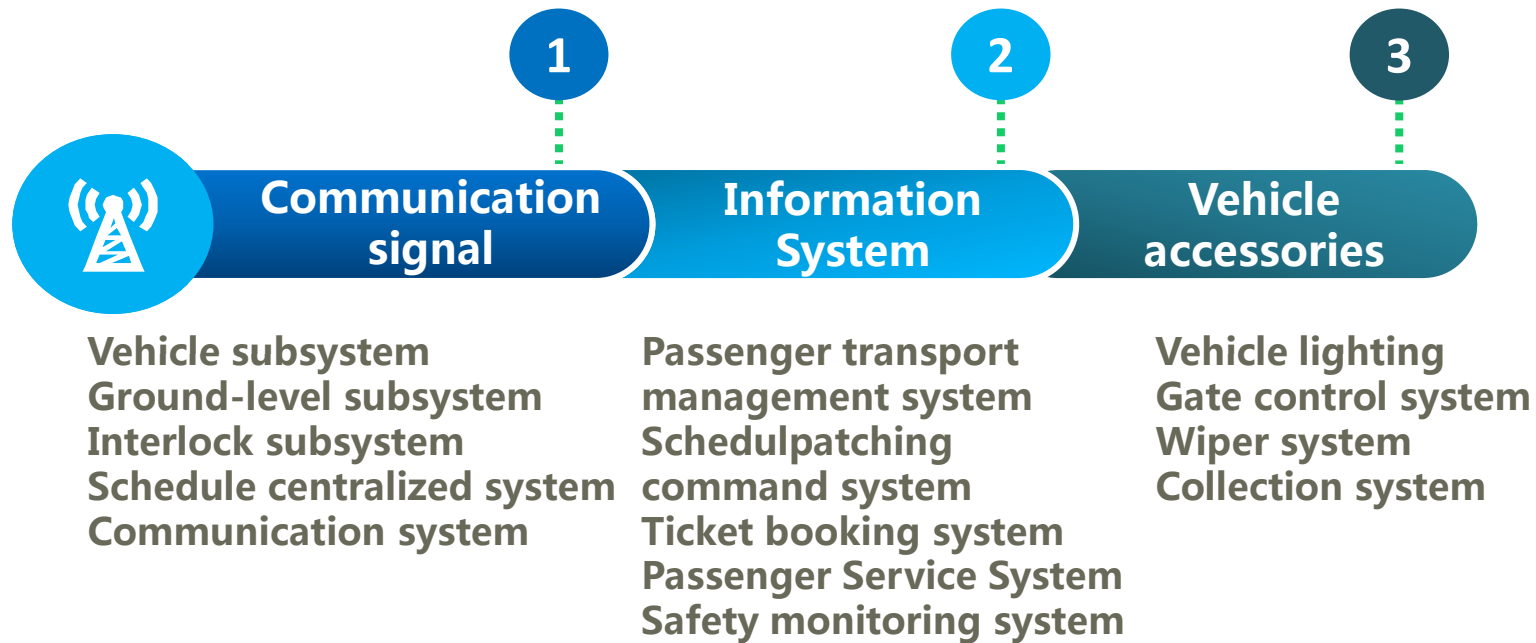




## Rail transit industry applications

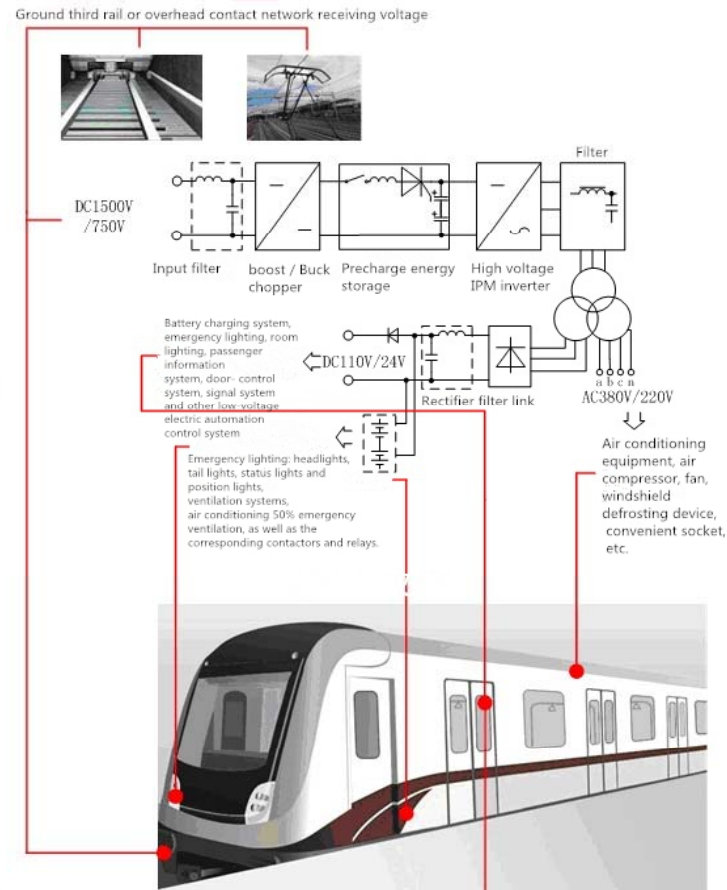
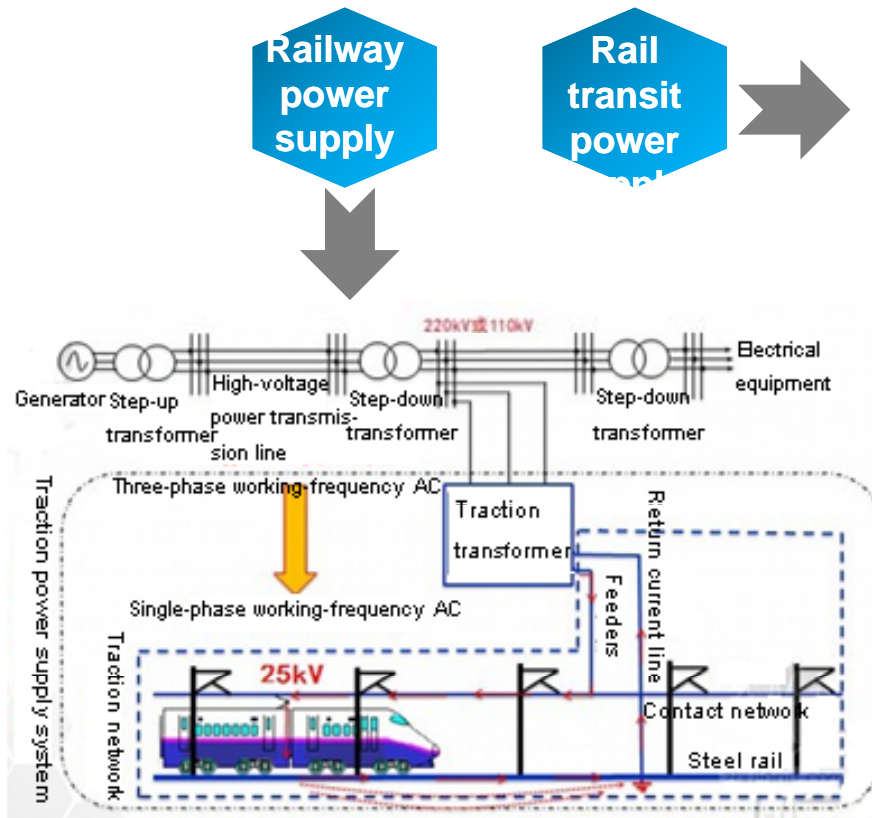


Rail traffic dedicated power supply involved in the fields



# Rail transit industry applications

## Railway and rail transit power supply system

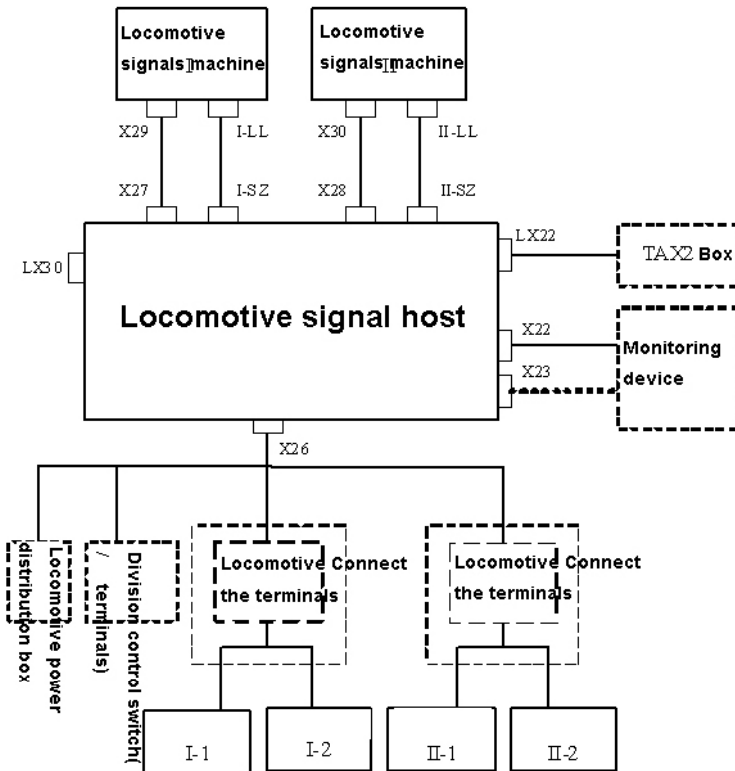




## Rail transit industry applications



Rail traffic special power supply involves the field- -locomotive signal



locomotive signal JT1-CZ2000

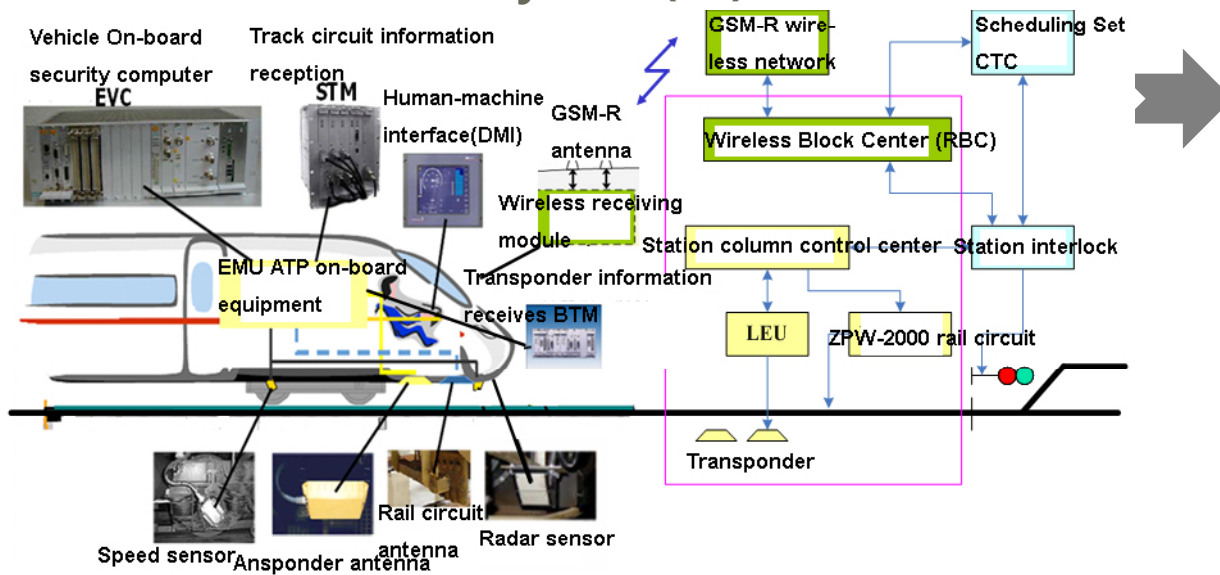
locomotive signal JT-CR-2000



# Rail transit industry applications



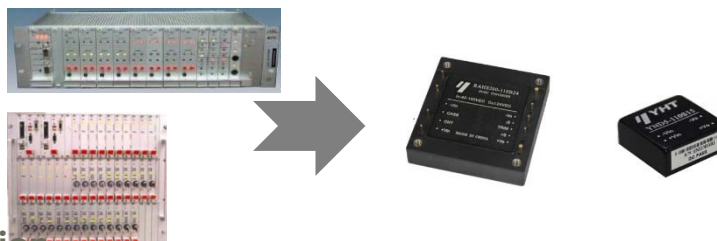
## Rail traffic special power supply involves fields-column control system (C3)



## Vehicle scheduling management system



Vehicle Computer  
 Rail-side axle counting equipment  
 Axle counting equipment in the station





## Rail transit industry applications



Rail traffic special power supply related fields-  
column control system (Vehicle BTM equipment)



Vehicle BTM host  
power supply





## Rail transit industry applications



### Rail traffic special power supply involves fields-column control system



Vehicle ATO



Axle temperature monitoring



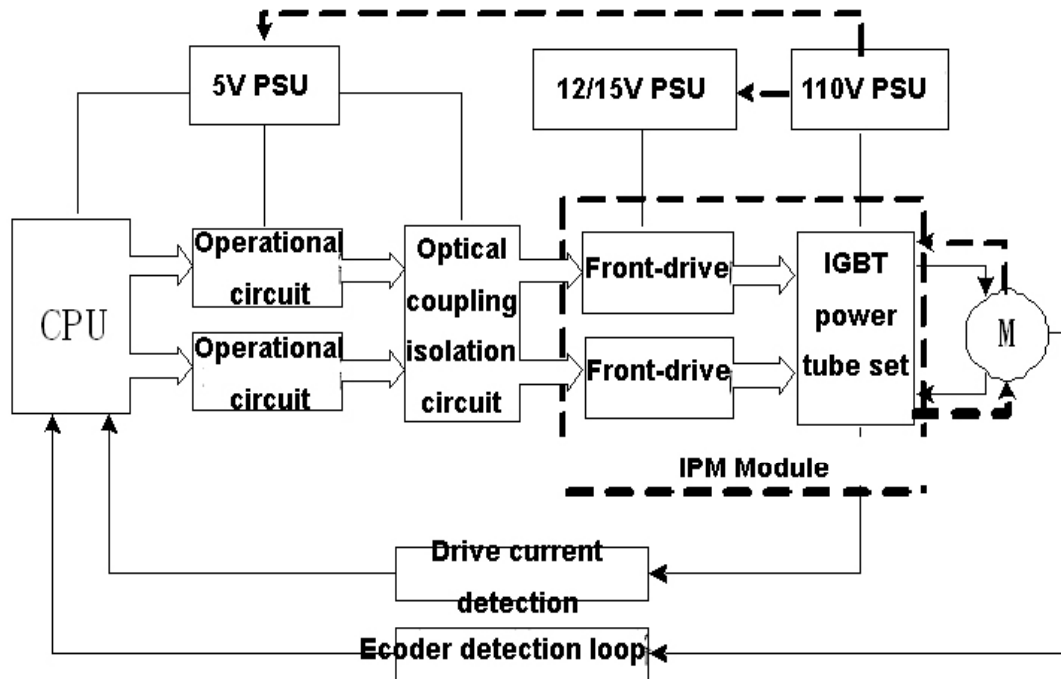




## Rail transit industry applications



Rail traffic special power supply involves fields-door control system

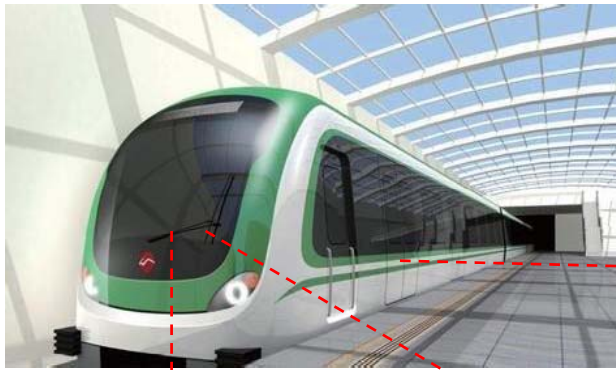




## Rail transit industry applications



Rail traffic special power supply involves fields-wiper, headlamp lighting and gathering system



Collection system



Front headlamp



Wipers



## Rail transit industry applications



Rail traffic special power supply involves the field-  
Vehicle passenger room lighting system



Optical sensor



Passenger room lighting  
power supply



Adaptive dimmer  
controller and  
power supply

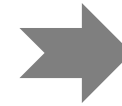


## Rail transit industry applications



Rail transit dedicated power supply involves field-  
Vehicle Passenger Information System (PIS)

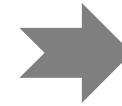
Vehicle PIS  
host



Dynamic map



LED displays

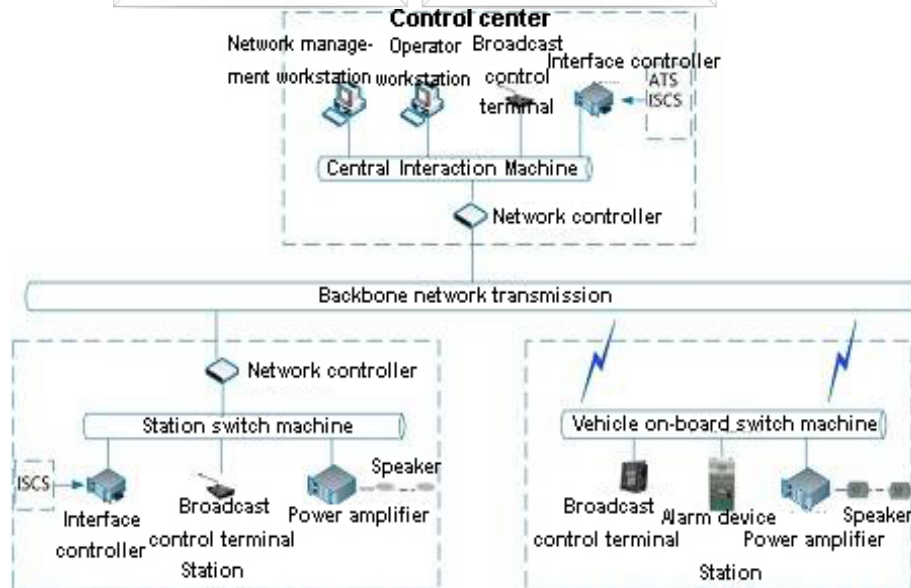




## Rail transit industry applications



### Rail transit dedicated power supply involves field- Vehicle On-board broadcasting system (PA)

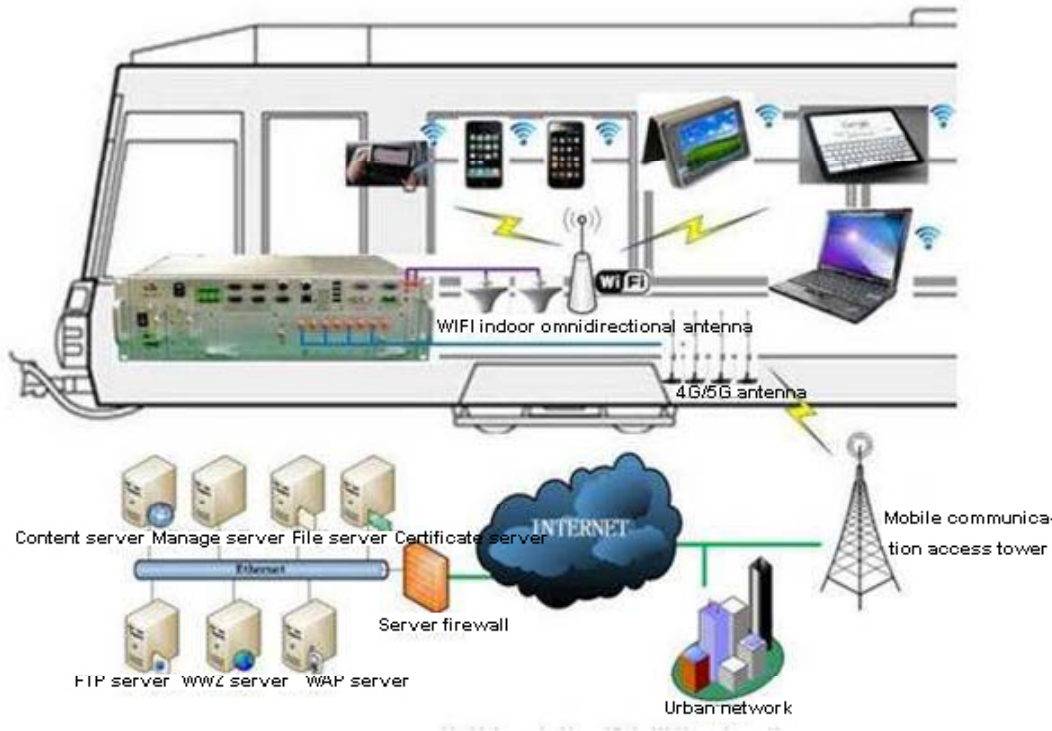




## Rail transit industry applications



### Rail traffic special power supply involves fields-vehicle wireless WIFI system



PART

4

# Service and Support





## Service and Support



### Service and Support



#### Design and type selection

Participate in customer early research and model selection, characteristic design, and a whole range of products provide users with EMC and security solutions

#### Communication

Regular technical exchange meetings to share power applications and failover functions

#### After-sale service

Provide timely technical support, and provide a 24-hour reply





## Service and Support



### Commitment



**Commitment**

**Feedback**

**Concept**

- AC/DC product warranty period is 2 years
- DC/DC and bell abortion quality warranty period is 5 years
- All products shall give the annual repair rate of less than 3 %
  
- Provides a preliminary analysis and response to customer feedback within 4 hours
- Person arrives at the site within 48 hours to provide support
- Feedback and 8D report within 1-3 days
  
- Not only superior products, but also superior service
- Product quality priority, never sacrifice product quality due to cost, delivery period



**Thanks for your listening**