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常州凯鹏液流器材有限公司

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新能源产品介绍  
NEW ENERGY PRODUCT  
INTRODUCTION

—先做人·后做事—

CHANGZHOU KAIPENG  
HYDRO-EQUIPMENT CO.,LTD  
常州凯鹏液流器材有限公司

**KAIPENG**

MORE THAN 30 YEARS  
**SEIKO QUALITY**

三十余年 · 精工品质

# ABOUT KAIPENG

## 关于凯鹏

SINCE 1994

常州凯鹏液流器材有限公司，自 1994 年创立以来，始终秉持着创新引领发展的核心理念，现已发展成为注册资金达 8000 万人民币，占地面积逾 9 万平方米，拥有近 300 名专业员工的行业领军企业。公司是专业从事热管理系统产品、危化品储运阀门总成部件、汽车配件等研发、生产和销售为一体的江苏省“专精特新”企业、江苏省苏南国家自主创新示范区瞪羚企业；

 商标为江苏省著名商标。

常州凯鹏于 2020 年初决策由燃油车散热器向新能源商用车 / 工程机械 / 轨道交通集成系统转型，对新能源热管理系统，新能源整车集成系统，新能源光储充场景及运输场景解决方案进行开发研究。总投资 8000 余万元，主要用于技术、人才储备，设备引进等项目建设。目前常州凯鹏自主研发生产的新能源汽车三电（电池、电机、电控）散热器，工程车、商用车电池热管理系统，氢燃料电池散热器，以及工商业储能热管理系统产品，收到了客户的一致好评。

今年以来，常州凯鹏不仅起草的《新能源汽车电池用液冷系统》团体标准顺利通过审批并正式发布；我司“动力电池热管理系统关键技术研发”项目也成功获批为 2024 年常州市科技计划（“揭榜挂帅”专项）重大科技项目；同时通过了 GB/T 23331-2020;RB/ T119-2015 能源管理体系认证。



Since its establishment in 1994, Changzhou Kaipeng Hydro-Equipment Co., Ltd. has upheld the core philosophy of innovation-driven development. It has grown into a leading enterprise in the industry with a registered capital of 80 million RMB, covering an area of over 90,000 square meters, and employing nearly 300 professionals. The company specializes in the research, development, production, and sales of thermal management system products, hazardous chemicals storage and transportation valve assemblies, automotive components, and more. It is recognized as a "specialized, special, and new" enterprise in Jiangsu Province and a gazelle enterprise in the Suzhou National Independent Innovation Demonstration Zone. The "KT" trademark is a well-known trademark in Jiangsu Province.

In early 2020, Changzhou Kaipeng decided to transition from fuel vehicle radiators to integrated systems for new energy commercial vehicles, construction machinery, and rail transit. We have focused on developing and researching solutions for new energy thermal management systems, integrated systems for new energy vehicles, energy storage and transportation scenarios, with a total investment exceeding 80 million RMB. This investment primarily supports technological advancements, talent acquisition, and equipment introduction.

Currently, Changzhou Kaipeng independently develops and manufactures new energy vehicle thermal management systems for batteries, motors, and electronic controls, as well as battery thermal management systems for construction and commercial vehicles, hydrogen fuel cell radiators, and industrial and commercial energy storage thermal management system products, all of which have received high praise from customers.

This year, Changzhou Kaipeng not only successfully drafted the group standard "Liquid Cooling System for New Energy Vehicle Batteries," which was approved and officially published, but also had its "Key Technology Research and Development of Power Battery Thermal Management Systems" project approved as a major science and technology project under the 2024 Changzhou City Science and Technology Plan ("Revealing the Leader" Special Project). Additionally, they have obtained certification under GB/T 23331-2020 and RB/T 119-2015 for energy management systems.

# 新能源产品手册目录

# New Energy Product Manual Table of Contents

## 新能源零部件

### 电机电控散热器(ATS)

- 商用车及工程机械ATS
- 氢电ATS

### 电池热管理系统

- 6KW 车辆电池热管理系统
- 8KW 车辆电池热管理系统
- 混动商用车多合一热管理系统
- 24KW放电机组热管理系统
- 搅拌车混动上装热管理系统

### 储能热管理系统

- 5KW 交流储能热管理系统
- 8KW 交流储能热管理系统
- 40KW 交流储能热管理系统
- 40KW 交流电源制式热管理系统

### 冷链集成化

- 冷冻冷藏车制冷机组

### 电池及储能

- 动力电池系统
- 移动式充储一体柜

## 新能源系统集成

## 新能源场景解决方案

## NEW ENERGY COMPONENTS

### MOTOR AND CONTROLLER RADIATORS (ATS)

- ATS for Commercial Vehicles and Construction Machinery
- Hydrogen-powered ATS

### BATTERY THERMAL MANAGEMENT SYSTEM

- 6KW Vehicle Battery Thermal Management System
- 8KW Vehicle Battery Thermal Management System
- Integrated Thermal Management System for Hybrid Commercial Vehicles
- 24KW Discharge Unit Thermal Management System
- Thermal Management System for Hybrid Mixer Truck Upper Structure

### ENERGY STORAGE THERMAL MANAGEMENT SYSTEM

- 5KW AC Energy Storage Thermal Management System
- 8KW AC Energy Storage Thermal Management System
- 40KW AC Energy Storage Thermal Management System
- 40 KW AC Power-Standard Thermal Management System

### COLD CHAIN INTEGRATION

- Refrigeration Unit for Refrigerated and Frozen Trucks

### BATTERY AND ENERGY STORAGE

- Power Battery System
- Mobile Charging and Energy Storage Cabinet

## NEW ENERGY SYSTEM INTEGRATION

## NEW ENERGY SCENARIO SOLUTIONS

# 新能源零部件

电机电控散热器 (ATS)

# NEW ENERGY COMPONENTS

MOTOR AND CONTROLLER RADIATORS  
(ATS)

## 商用车及工程机械ATS

ATS FOR COMMERCIAL VEHICLES AND CONSTRUCTION MACHINERY

### KT-TMS-BQ001



主要适用车型  
Main Applicable Vehicle Types

**新能源汽车**  
New Energy Vehicles

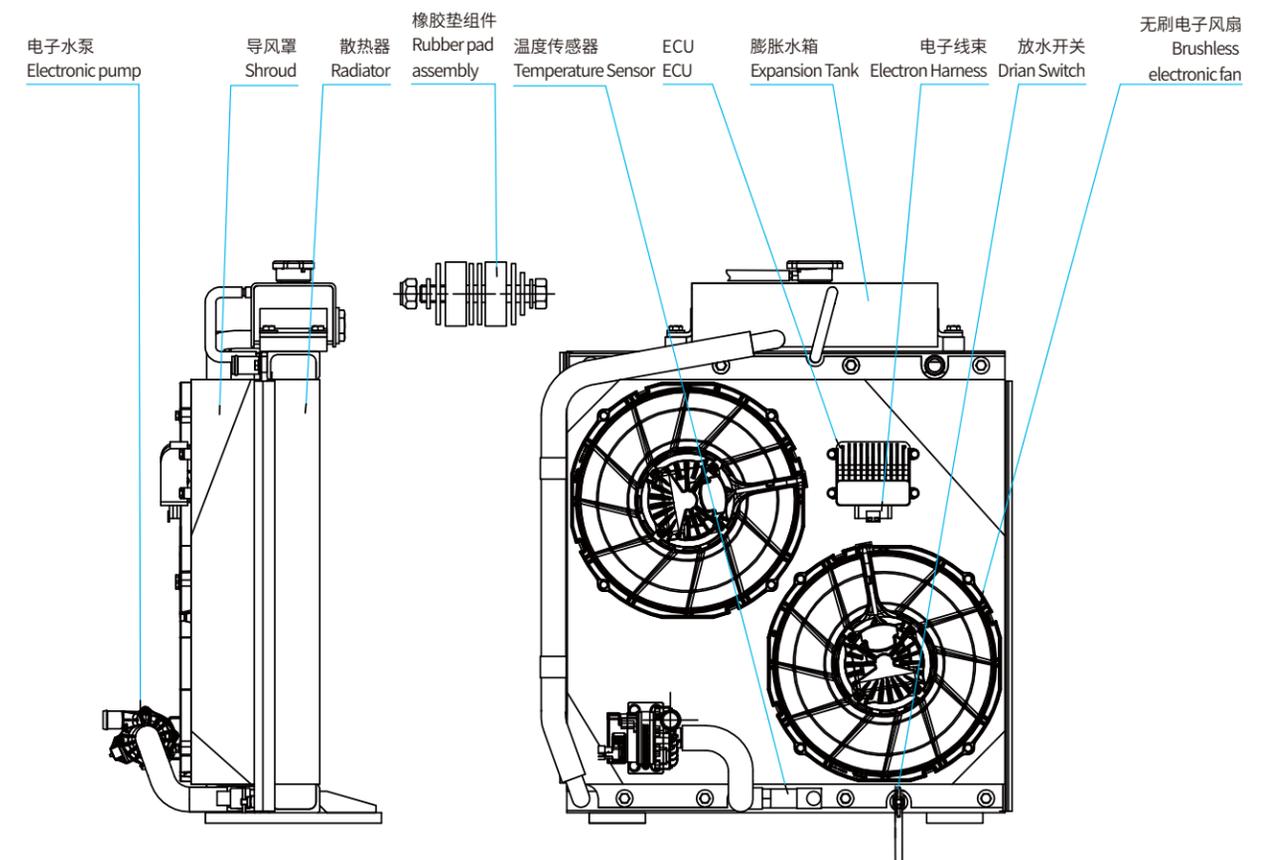
#### 系统参数 SYSTEM PARAMETERS

类型	Type	参数 Parameter
风扇	Fan	无刷电子风扇 Brushless Electronic Fan
膨胀水箱	Expansion Tank	建议增加 Recommended
换热芯体尺寸	Core Size (cm)	1800x1200x160最大尺寸 Max size of the core

#### 产品功能 FUNCTIONS

根据整车的温度需求,结合散热器配置的温度传感器提供的温度,整车控制系统可以调节无刷电子风扇的转速,使散热器出口温度保持在系统需求的最佳温度,节能环保的同时有效的提高了水路系统零部件的使用寿命;产品同时配置液视镜和液位传感器,减少了驾驶者的专业知识需求,提高了零部件保养的及时性;高效的电子水泵集成,极大的减少了整车空间的需求和管路的布置,减少了产品失效点的同时也提高了客户的外观满意度。

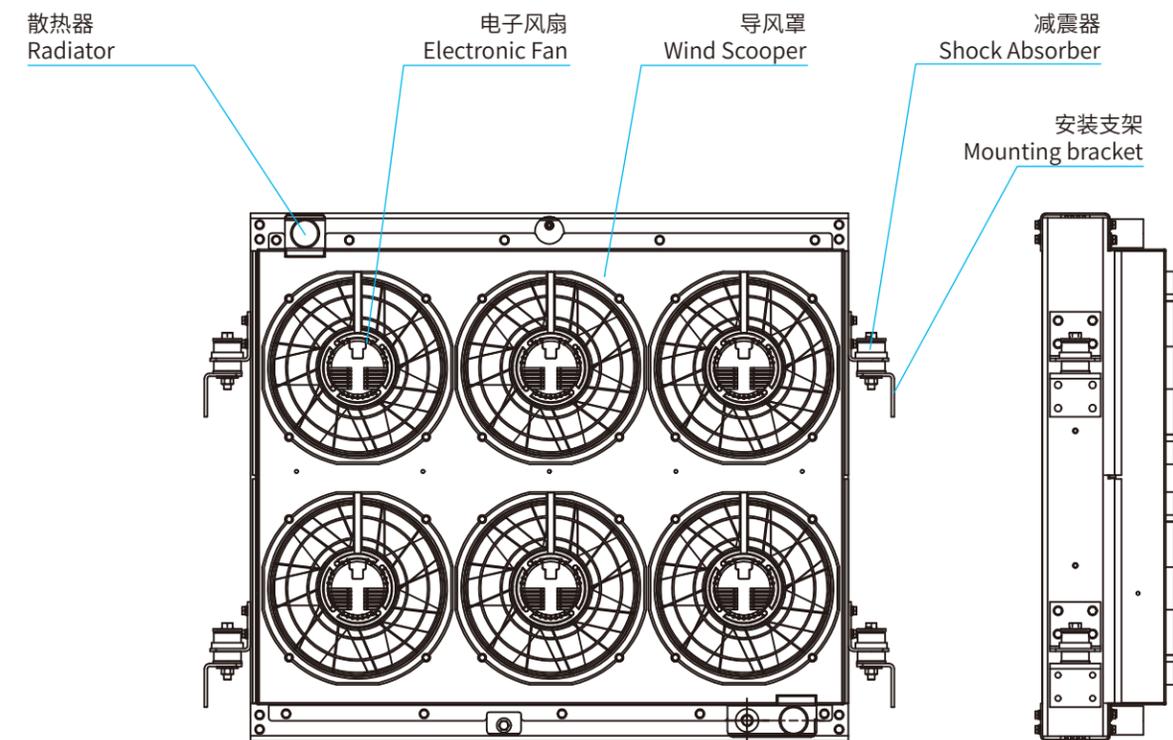
According to the temperature requirements of the vehicle, combined with the temperature provided by the radiator temperature transfer device, the vehicle control system can adjust the speed of brushless electronic fan, so that the radiator outlet temperature is kept at the optimal temperature required by the system, saving energy and environmental protection, while effectively improving the service life of the water system parts; The product is equipped with liquid vision mirror and liquid level sensor at the same time, which reduces the driver's need for professional knowledge and improves the timeliness of component maintenance. Efficient electronic water pump integration greatly reduces the vehicle space requirements and pipeline layout, reduces the failure points of products and also improves the customer's appearance satisfaction.



# 氢燃料电池车辆ATS

## HYDROGEN-POWERED ATS

C80046



主要适用车型  
Main Applicable Vehicle Types

大巴及工程机械  
Bus and Construction Machinery

### 产品功能 FUNCTIONS

- 1.氢燃料电池堆反应产生热量,通过水泵循环冷却液,将热量带到散热器,电动风扇产生强制冷风通过散热器,通过散热器内部的冷却液跟外侧的冷风产生热交换,将热量散到大气中去,使燃料堆维持在适宜的温度下工作;
- 2.通过特殊的清洗工艺,维持散热器高清洁度和低离子浓度(出厂可低于5us/cm),采用特殊材料,维持散热器的低离子释放率,从而满足系统的电导率要求,并有效延长系统去离子器的寿命。

- 1.Heat generated by hydrogen fuel electric pile reaction will go through the pump circulates coolant and bring the heat to the radiator. The forced cold air from the electric fan will go through the radiator and heat will be exchanged between the coolant inside the radiator and the cold air outside. In that way, it will dissipate heat and keep the fuel stack at a suitable temperature.
- 2.By a special cleaning process, it can maintain the radiator cleanliness and low ion concentration(lower than 5us/cm in factory). Special materials are used to maintain low ion release rate in order to meet the electrical conductivity requirements of the system and effectively extend the life of system deionizer.



氢燃料电池车辆ATS集成系统  
Hydrogen-powered ATS Integrated System

# 新能源零部件

电池热管理系统

# NEW ENERGY COMPONENTS

BATTERY THERMAL  
MANAGEMENT SYSTEM

## 6KW 车辆电池热管理系统

6KW VEHICLES BATTERY  
COOLING THERMAL MANAGEMENT SYSTEM

### KT-TMS0602125D-SYLJ



主要适用车型  
Main Applicable Vehicle Types

卡车、客车、工程机械车辆等  
Trucks, Buses, Engineering Machinery Vehicles, etc.

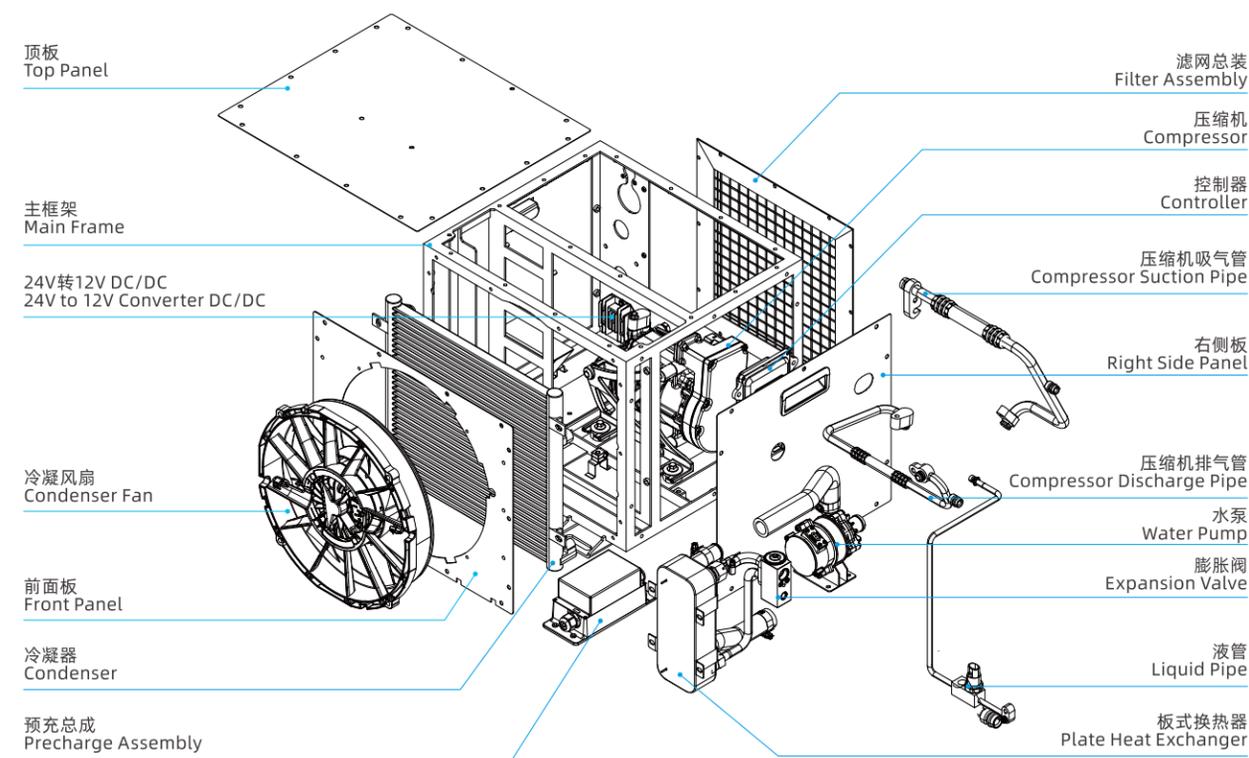
#### 系统参数 SYSTEM PARAMETERS

类型	Type	参数 Parameter
使用环境温度	Operating Ambient Temperature	-30-45°C
平均输入电功率 (kW)	Average Input Electric Power (kW)	>3kw (含附件损耗)
综合能效比COP	Comprehensive Energy Efficiency Ratio (COP)	<2.0(额定工况)
高压电源输入范围	High Voltage Power Input Range	DC180-470V
低压工作电压范围	Low Voltage Operating Voltage Range	16-32VDC
高压功率	High Voltage Power	3kw
低压功率	Low Voltage Power	500W+120W (风机+水泵功率)
机组尺寸	Unit Dimensions	360*462*380mm
进水口尺寸	Inlet Water Port Size	25mm
出水口尺寸	Outlet Water Port Size	25mm
控制方式	Control Method	CAN2.0协议

#### 产品特点 PRODUCT FEATURES

- 一体化设计, 节省现场安装调试成本。
- 高效变频压缩机, 变频设计, 高效节能。
- 压缩机无极调速, 冷量智能调节。
- 风机智能调速, 时时与热负荷匹配, 节能降噪。
- CAN通讯接口, 通过CAN协议实现BMS监控。
- 可靠性高, 365天/年不间断运行。
- 专为工程车辆设计, 整体钣金加强, 抗震性好。
- 增加了电磁干扰设计, 可适用绝大部分恶劣工况。
- 电控全部采用IP67防护等级, 安全性高。
- 全部采用车规级压缩机、车规级电控芯片, 符合车用要求。

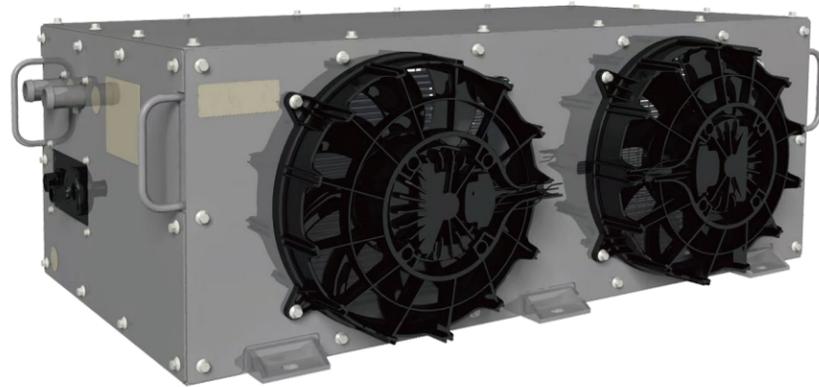
- Integrated design to reduce on-site installation and commissioning costs.
- High-efficiency variable frequency compressor with variable frequency design for superior energy efficiency.
- Stepless speed regulation of the compressor for intelligent cooling capacity adjustment.
- Intelligent fan speed regulation to match real-time thermal loads, achieving energy savings and noise reduction.
- Equipped with a CAN communication interface for BMS monitoring via CAN protocol.
- High reliability, capable of 24/7 operation, 365 days a year.
- Specifically designed for engineering vehicles with reinforced metal casing for enhanced vibration resistance.
- Incorporates electromagnetic interference (EMI) design, suitable for most harsh working conditions.
- Electrical controls feature IP67 protection for high safety standards.
- Uses automotive-grade compressors and electronic control chips, meeting vehicle application requirements.



# 8KW车辆电池热管理系统

## 8KW VEHICLE BATTERY COOLING THERMAL MANAGEMENT SYSTEM

### TMS075010125S4-KP



主要适用车型  
Main Applicable Vehicle Types

**卡车、客车、工程机械车辆等**  
Trucks, Buses, Engineering Machinery Vehicles, etc.

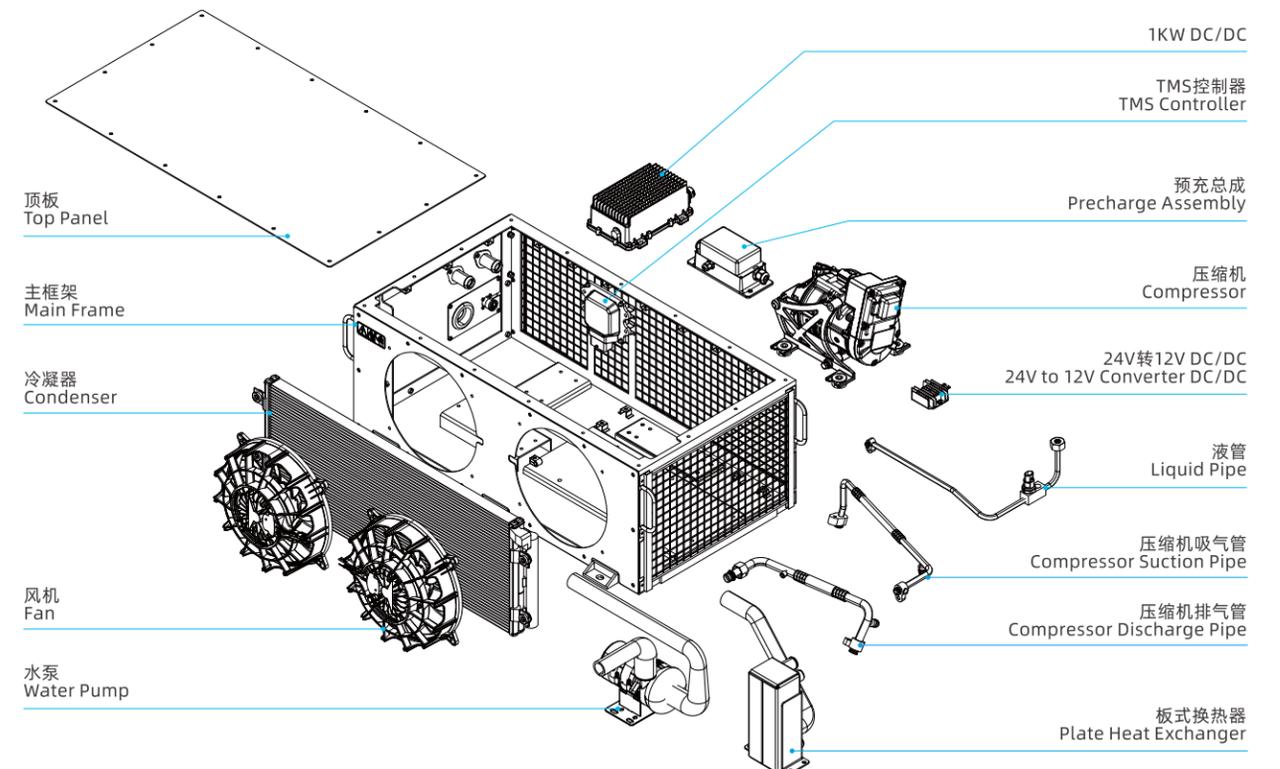
#### 系统参数 SYSTEM PARAMETERS

类型	Type	参数	Parameter
使用环境温度	Operating Ambient Temperature	5-50°C	
平均输入电功率 (kW)	Average Input Electric Power (kW)	≤8kw (含附件损耗)	
综合能效比COP	Comprehensive Energy Efficiency Ratio (COP)	≤2.0(额定工况)	
高压电源输入范围	High Voltage Power Input Range	DC450-790V	
低压工作电压范围	Low Voltage Operating Voltage Range	18-32VDC	
高压功率	High Voltage Power	5kw	
额定制冷量(L35°C/W18°C)(kW)	Rated Cooling Capacity(L35°C/W18°C)(kW)	8(BMS 5KW+HVAC 3KW)	
机组尺寸	Unit Dimensions	910*578*317mm	
进水口尺寸	Inlet Water Port Size	25mm	
出水口尺寸	Outlet Water Port Size	25mm	
控制方式	Control Method	CAN2.0协议	

#### 产品特点 PRODUCT FEATURES

- 一体化设计, 节省现场安装调试成本。
- 高效变频压缩机, 变频设计, 高效节能。
- 压缩机无极调速, 冷量智能调节。
- 风机智能调速, 时时与热负荷匹配, 节能降噪。
- CAN通讯接口, 通过CAN协议实现BMS监控。
- 可靠性高, 365天/年不间断运行。
- 专为工程车辆设计, 整体钣金加强, 抗震性好。
- 增加了电磁干扰设计, 可适用绝大部分恶劣工况。
- 电控全部采用IP67防护等级, 安全性高。
- 全部采用车规级压缩机、车规级电控芯片, 符合车用要求。

- Integrated design to reduce on-site installation and commissioning costs.
- High-efficiency variable frequency compressor with variable frequency design for superior energy efficiency.
- Stepless speed regulation of the compressor for intelligent cooling capacity adjustment.
- Intelligent fan speed regulation to match real-time thermal loads, achieving energy savings and noise reduction.
- Equipped with a CAN communication interface for BMS monitoring via CAN protocol.
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- Specifically designed for engineering vehicles with reinforced metal casing for enhanced vibration resistance.
- Incorporates electromagnetic interference (EMI) design, suitable for most harsh working conditions.
- Electrical controls feature IP67 protection for high safety standards.
- Uses automotive-grade compressors and electronic control chips, meeting vehicle application requirements.



# 混动商用车多合一热管理系统

INTEGRATED THERMAL MANAGEMENT SYSTEM FOR HYBRID COMMERCIAL VEHICLES

## KT-TMS-BQ001

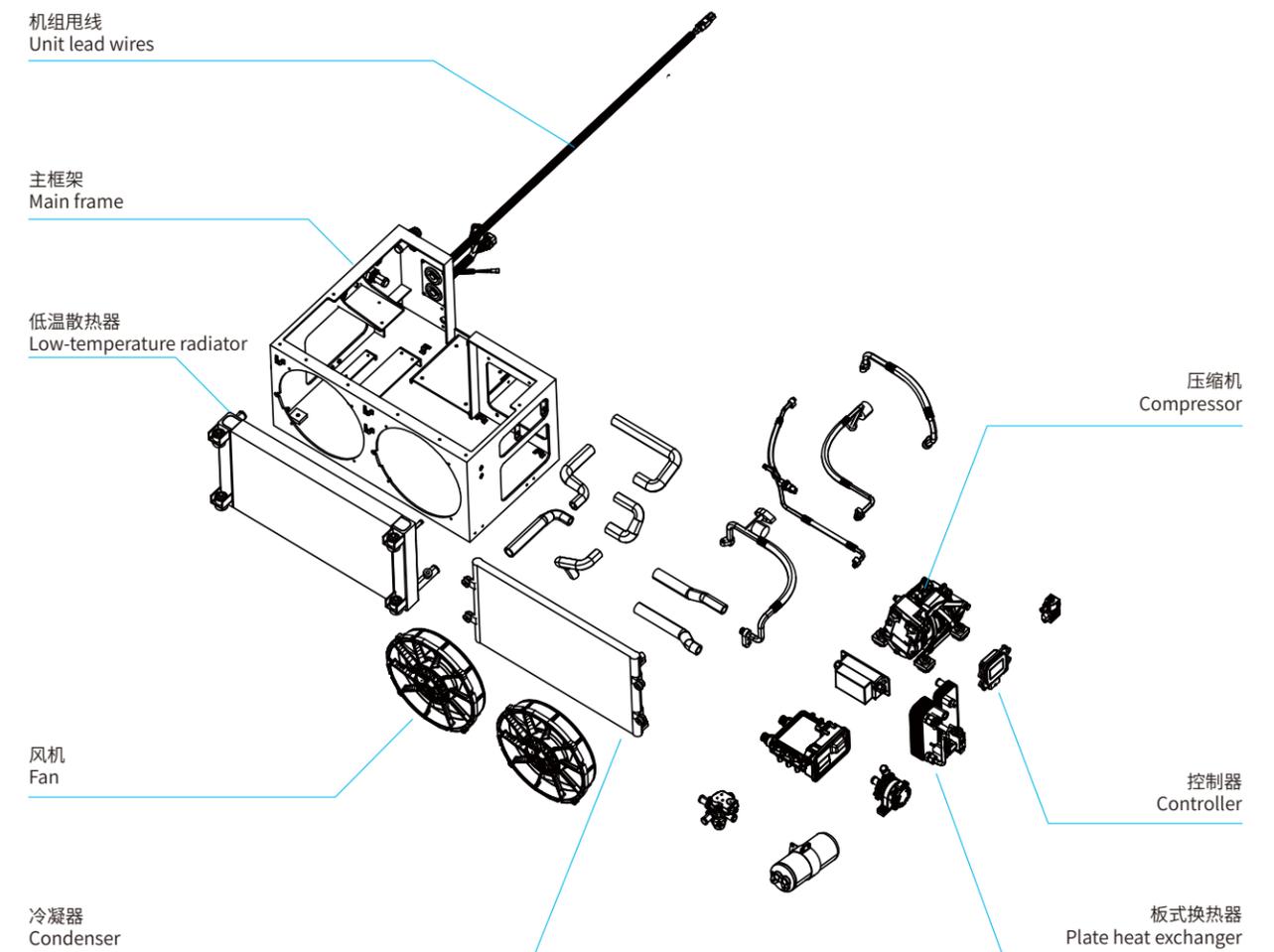


主要适用车型  
Main Applicable Vehicle Types

混动商用车  
Hybrid Commercial Vehicles

### 系统优势 SYSTEM ADVANTAGES

优势	具体体现
集成化设计	体积减30%，重量降25%，释放车辆空间
智能节能	能耗降40%，冷热双模式精准控温
可靠耐用	IP67防护，50万公里寿命，极端环境稳定运行
全车型适配	兼容纯电/混动车型及主流电池品牌
长效收益	电池寿命延长20%，维护成本省30%
低碳智能	环保冷媒+余热回收，云端远程管理



## 24KW放电机组热管理系统

### 24KW DISCHARGE UNIT THERMAL MANAGEMENT SYSTEMS

#### KT-WBR650V24KW



#### 产品特点 PRODUCT FEATURES

- 一体化设计, 节省现场安装调试成本;
- 高效变频压缩机, 变频设计, 高效节能;
- 压缩机无极调速, 冷量智能调节;
- 风机智能调速, 时时与热负荷匹配, 节能降噪;
- CAN通讯接口, 通过CAN协议实现BMS监控;
- 可靠性高, 365天/年不间断运行;
- 专为工程车辆设计, 整体钣金加强, 抗震性好;
- 增加了电磁干扰设计, 可适用绝大部分恶劣工况;
- 电控全部采用IP67防护等级, 安全性高;
- 全部采用车规级压缩机、车规级电控芯片, 符合车用要求。

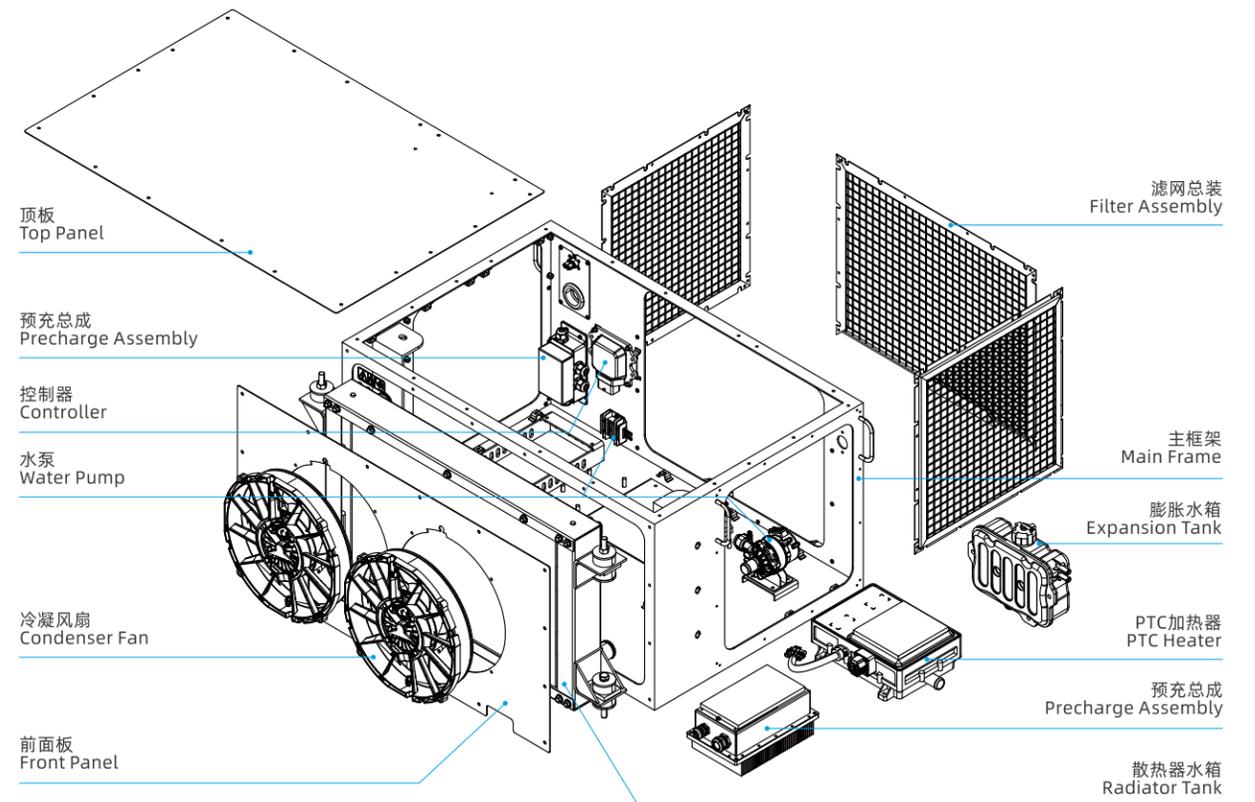
- Integrated design to reduce on-site installation and commissioning costs.
- High-efficiency variable frequency compressor with variable frequency design for superior energy efficiency.
- Stepless speed regulation of the compressor for intelligent cooling capacity adjustment.
- Intelligent fan speed regulation to match real-time thermal loads, achieving energy savings and noise reduction.
- Equipped with a CAN communication interface for BMS monitoring via CAN protocol.
- High reliability, capable of 24/7 operation, 365 days a year.
- Specifically designed for engineering vehicles with reinforced metal casing for enhanced vibration resistance.
- Incorporates electromagnetic interference (EMI) design, suitable for most harsh working conditions.
- Electrical controls feature IP67 protection for high safety standards.
- Uses automotive-grade compressors and electronic control chips, meeting vehicle application requirements.

主要适用车型  
Main Applicable Vehicle Types

卡车、客车、工程机械车辆等  
Trucks, Buses, Engineering Machinery Vehicles, etc.

#### 系统参数 SYSTEM PARAMETERS

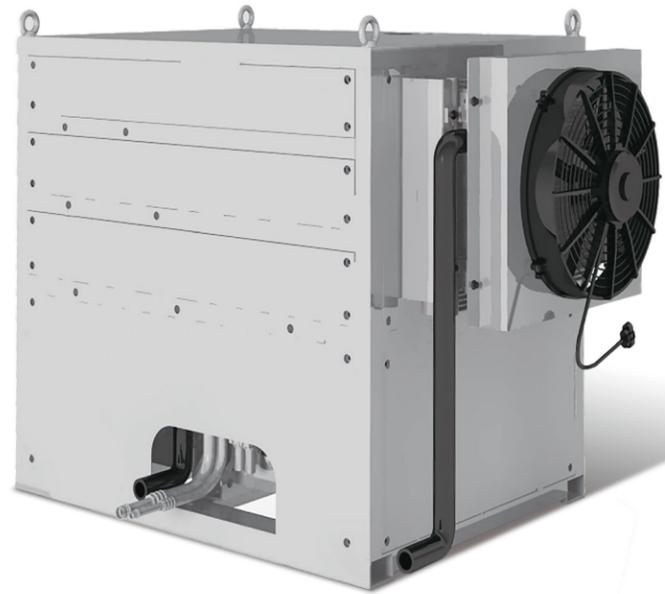
类型	Type	参数 Parameter
使用环境温度	Operating Ambient Temperature	-20-80°C
平均输出电功率 (kW)	Average Input Electric Power (kW)	>24kw (含附件损耗)
综合能效比COP	Comprehensive Energy Efficiency Ratio (COP)	<2.0(额定工况)
高压电源输入范围	High Voltage Power Input Range	DC450-790V
低压工作电压范围	Low Voltage Operating Voltage Range	18-32VDC
高压功率	High Voltage Power	24-35kw
低压功率	Low Voltage Power	1120W (风机+水泵功率)
机组尺寸	Unit Dimensions	2000×694×488
进水口尺寸	Inlet Water Port Size	25MM
出水口尺寸	Outlet Water Port Size	25MM
控制方式	Control Method	CAN2.0协议



# 搅拌车电动上装系统

## ELECTRIC TRUCK MIXER UPERSTRUCTURE SYSTEM

### KT-TMS0800601-01



主要适用车型  
Main Applicable Vehicle Types

搅拌车  
Mixer Truck

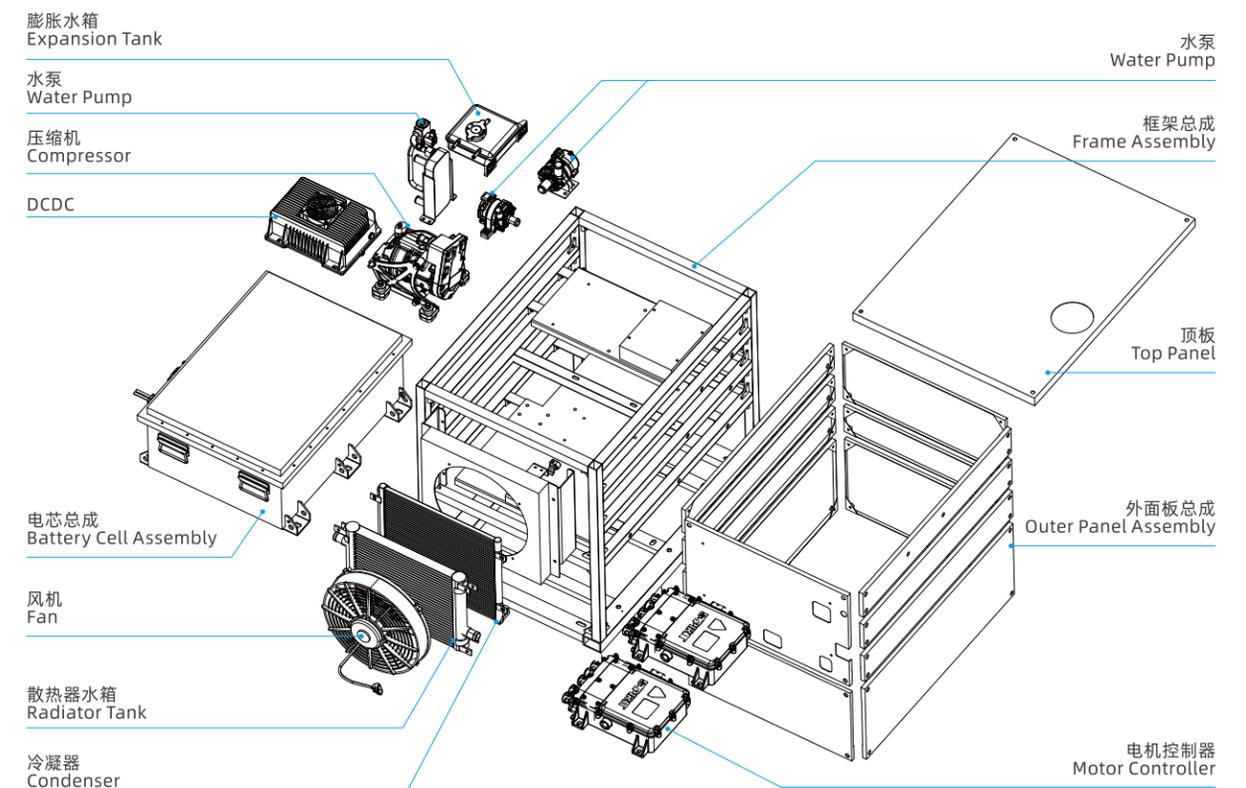
#### 系统参数 SYSTEM PARAMETERS

类型	Type	参数 Parameter
使用环境温度	Operating Ambient Temperature	-40°C~45°C
平均使用电功率	Average Input Electric Power (kW)	<4KW
综合能效比COP	Comprehensive Energy Efficiency Ratio (COP)	2.0
高压电源输入范围	High Voltage Power Input Range	280~320VDC
低压工作电压范围	Low Voltage Operating Voltage Range	9~15VDC
电池容量	Battery capacity	7~10KW.H
高压功率	High Voltage Power	4KW
低压功率	Low Voltage Power	<500W
机组尺寸	Unit Dimensions	820*613*742
进水口尺寸	Inlet Water Port Size	φ25
出水口尺寸	Outlet Water Port Size	φ25
控制方式	Control Method	CAN2.0

#### 产品特点 PRODUCT FEATURES

- 上装供能电池包与散热系统整合,大幅减轻重量;
- 一体化设计,节省现场安装调试成本;
- 高效变频压缩机,变频设计,高效节能;
- 压缩机无极调速,冷量智能调节;
- 节能环保,减少燃油消耗,减少碳排放;
- 提升整车能效,能量回收,优化能量分配;
- 降低噪音,电动系统静音,适合市区作业;
- 提高作业灵活性,独立供电能力,更高的控制精度;
- 降低维护成本,减少发动机负载,减少油品更换;
- 提高安全性,冗余动力系统,备用动力来源。

- Integration of the onboard power supply battery pack and cooling system significantly reduces weight.
- Integrated design saves on-site installation and commissioning costs.
- High-efficiency variable frequency compressor with variable frequency design for energy efficiency.
- Stepless speed regulation of the compressor enables intelligent cooling capacity adjustment.
- Energy-saving and environmentally friendly, reducing fuel consumption and carbon emissions.
- Enhances overall vehicle efficiency with energy recovery and optimized energy distribution.
- Reduces noise levels, with a quiet electric system suitable for urban operations.
- Improves operational flexibility with independent power supply and higher control precision.
- Lowers maintenance costs by reducing engine load and oil replacement frequency.
- Increases safety with a redundant power system providing a backup power source.



# 新能源零部件

储能热管理系统

# NEW ENERGY COMPONENTS

ENERGY STORAGE  
THERMAL MANAGEMENT SYSTEM

## 5KW交流储能热管理系统

5KW AC ENERGY STORAGE THERMAL MANAGEMENT SYSTEM

### KT-CNTMS0600201-220AC



#### 产品特点 PRODUCT FEATURES

- 一体化设计，节省现场安装调试成本
  - 高效率变频压缩机，变频设计，高效节能
  - 压缩机无极调速，冷量智能调节
  - 风机智能调速，时时与热负荷匹配，节能降噪
  - 交流220V 50/60Hz供电，允许电压±15%波动
  - CAN通讯接口，通过CAN协议实现BMS监控
  - RS485通讯接口，通过MODBUS协议实现BMS监控
  - 具有来电自启动功能，并提供多种告警及保护功能
  - R134a环保制冷剂，满足RoHS要求
  - 可靠性高，365天/年不间断运行
  - 体积小，结构紧凑，防护等级IPX5
  - 加热量2500W，满足低温场景设备加热需求应用
- Integrated design reduces on-site installation and commissioning costs
  - High-efficiency inverter compressor with variable frequency design for energy saving
  - Stepless compressor speed control enables intelligent cooling capacity adjustment
  - Intelligent fan speed control matches real-time heat load, saving energy and reducing noise
  - AC 220V 50/60Hz power supply, allows ±15% voltage fluctuation
  - CAN communication interface for BMS monitoring via CAN protocol
  - RS485 communication interface for BMS monitoring via MODBUS protocol
  - Auto-restart after power restoration with multiple alarm and protection functions
  - Environmentally friendly R134a refrigerant, compliant with RoHS requirements
  - High reliability with 24/7 continuous operation throughout the year
  - Compact size and structure with IPX5 protection rating
  - 2500W heating capacity to meet equipment heating requirements in low-temperature environments

#### 主要应用场合 Main Applications

设备集装箱、储能集装箱、储能电池柜、储能电池散热.....  
Equipment Containers, Energy Storage Containers, Energy Storage Battery Cabinets,  
Energy Storage Battery Cooling...

#### 系统参数 SYSTEM PARAMETERS

类型	Type	参数 Parameter
模式	Fan	单冷+电加热 Cooling + Electric Heating
安装方式	Installation Type	卧式 Horizontal
制冷剂	Refrigerant	R134a
制冷量	Cooling Capacity	≥5kW
COP	COP	> 2.0
制热量	Heating Capacity	2.5kW
制冷剂	Refrigerant	50%乙二醇水溶液 50% Ethylene Glycol Solution
输入电压	In-Put Voltage	220V
输入频率	In-Put Frequency	50/60Hz
尺寸	Size	700*885*250mm

## 8KW 交流储能热管理系统

8 KW AC ENERGY STORAGE THERMAL MANAGEMENT SYSTEM

### TMS0800201-NW26-220AC



#### 主要应用场合 Main Applications

设备集装箱、储能集装箱、储能电池柜、储能电池散热.....  
Equipment Containers, Energy Storage Containers, Energy Storage Battery Cabinets,  
Energy Storage Battery Cooling...

#### 主要功能 MAJOR FUNCTION

- 在电池温度较高时进行散热,防止产生热失控事故;
- 在电池温度较低时进行预热,提升电池温度,确保低温下的充电、放电性能和安全性;
- 减小电池组内的温度差异,抑制局部热区的形成,防止高温位置处电池过快衰减,延长电池组整体寿命。

- Disperse heat when the battery temperature is high to prevent thermal runaway accidents.
- Preheat the battery when the temperature is low to increase its temperature, ensuring charging and discharging performance and safety in low-temperature conditions.
- Minimize temperature differences within the battery pack, suppress the formation of localized hot zones, prevent rapid degradation of batteries in high-temperature areas, and extend the overall lifespan of the battery pack.

#### 系统参数 SYSTEM PARAMETERS

类型	Type	参数 Parameter
<b>整机参数</b>	<b>Overall Specifications</b>	
制冷量@W15/L45	Cooling Capacity @W15/L45	8.0kw
制冷输入功率@W15/L35	Cooling Input Power @W15/L35	3.07kw
制冷输入功率@W15/L45	Cooling Input Power @W15/L45	4.55kw
电加热量	Electric Heating Capacity	2.5kw
电源	Power Supply	200~240V±10%,50/60Hz ±3
最大工作电流	Maximum Operating Current	32A
工作环境范围	Operating Environment Range	-30~+55°C
IP 防护等级	IP Protection Level	IPX5
噪声等级	Noise Level	74.5dB(A)
外形尺寸(宽×深×高)	Dimensions (Width × Depth × Height)	275×1205×1074mm
质量	Weight	140kg
<b>冷媒系统</b>	<b>Refrigerant System</b>	
制冷剂	Refrigerant	R410a
风机类型	Fan Type	EC Eentrifugal Fan
风机数量	Number of Fans	4
冷凝风量	Condenser Airflow	2550m <sup>3</sup> /h
<b>水路系统</b>	<b>Water Circuit System</b>	
载冷制	Secondary Refrigeration System	50% Ehylene Glycol
蒸发器型式	Evaporator Type	Plate Heat Exchanger
接管管径	Pipe Diameter	NW26mm
接管型式	Pipe Connection Type	Quick Coupling
水流量	Water Flow Rate	50@90kPa l/min

## 40KW 交流储能热管理系统

### 40 KW AC ENERGY STORAGE THERMAL MANAGEMENT SYSTEM

#### TMS600201-NW26-380AC



主要应用场合  
Main Applications

设备集装箱、储能集装箱、储能电池柜、储能电池散热.....  
Equipment Containers, Energy Storage Containers, Energy Storage Battery Cabinets,  
Energy Storage Battery Cooling...

#### 系统参数 SYSTEM PARAMETERS

类型	Type	参数 Parameter
应用环境	Application Environment	-30°C ~+55 °C
电源	Power Supply	380V 50/60Hz
制冷量	Cooling Capacity	20-40W
加热量	Heating Capacity	15000W
冷却液	Coolant	Antifreeze

## 40KW 交流电源制式热管理系统

### 40 KW AC POWER-STANDARD THERMAL MANAGEMENT SYSTEM

#### TMS2400201-NW26-380AC



主要应用场合  
Main Applications

设备集装箱、储能集装箱、储能电池柜、储能电池散热.....  
Equipment Containers, Energy Storage Containers, Energy Storage Battery Cabinets,  
Energy Storage Battery Cooling...

#### 系统参数 SYSTEM PARAMETERS

类型	Type	参数 Parameter
应用环境	Application Environment	-30°C ~+55 °C
电源	Power Supply	380V 50/60Hz
制冷量	Cooling Capacity	20-40W
加热量	Heating Capacity	15000W
冷却液	Coolant	Antifreeze

# 新能源零部件

冷链集成化

# NEW ENERGY COMPONENTS

COLD CHAIN  
INTEGRATION

## 冷冻冷藏车制冷机组

REFRIGERATION UNIT FOR REFRIGERATED AND FROZEN TRUCKS

### KPS-KT-501



主要适用车型  
Main Applicable Vehicle Types

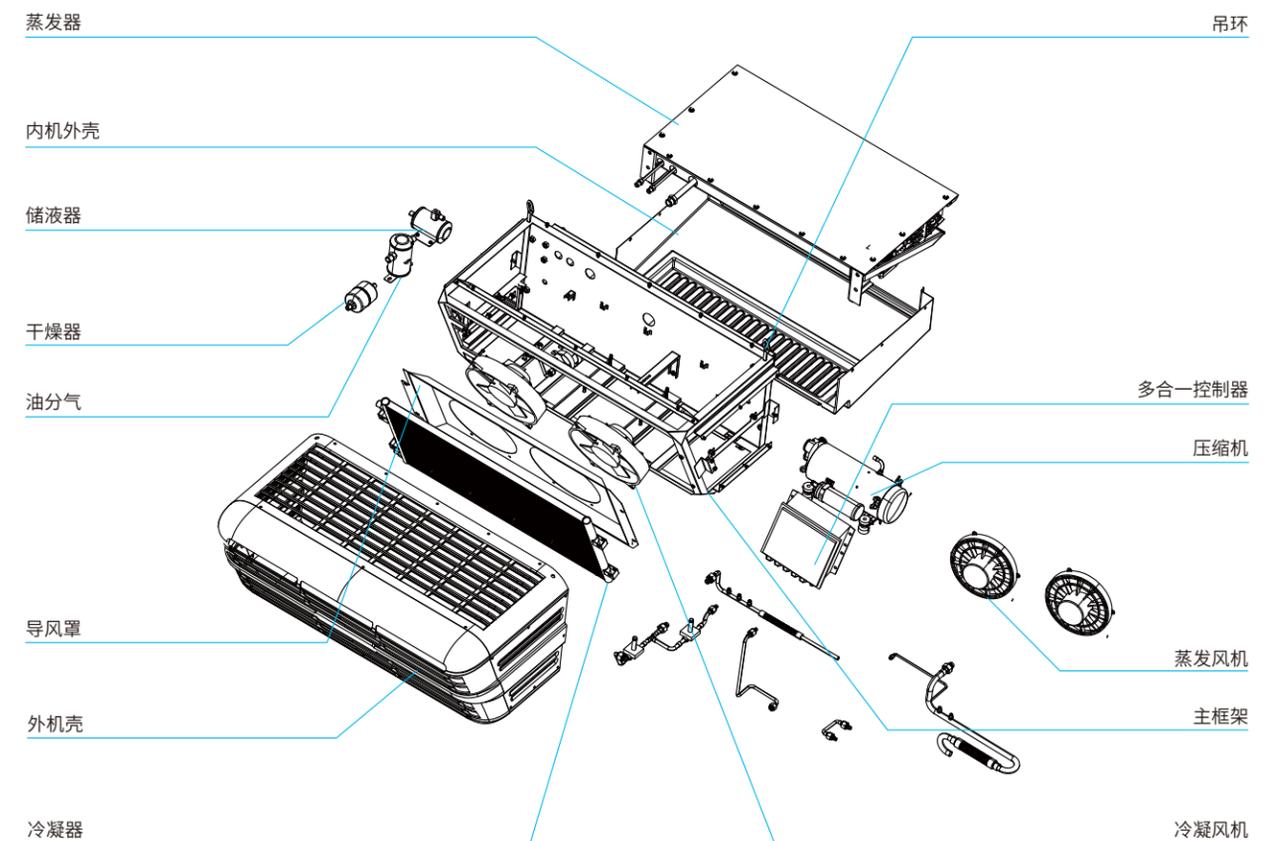
冷冻冷藏车  
Pure electric refrigerated trucks

#### 系统参数 SYSTEM PARAMETERS

类型	Type	参数 Parameter
适用厢体容积	Applicable box volume	16-20m <sup>3</sup>
温度范围	Temperature Range	-20°C~+15°C
制冷量及功耗	Cooling capacity and Power consumption	0°C/+30°C 4100W
		-20°C/+30°C 2000W
驱动方式	Drive Mode	纯电 Electrical
控制电压	Control Voltage	DC24V(18~36V)
高压输入	High Voltage Supply	DC260V-DC750V
最大总功耗	Max. Total Power Consumption	≤3.5kW
压缩机类型	Compressor Type	转子式 Rotor Type
风机类型	Fan Type	轴流 Axial Compressor
控制方式	Control	CAN 通讯
尺寸	Size	1250x1070x450mm
重量	Weight	98kg

#### 产品特点 PRODUCT FEATURES

- 一体式结构, 安装简便;
  - 电源、变频器、控制器等多合一, 降低故障点, 提升产品稳定性;
  - 宽电压设计(DC260-750V), 可外接市电工作;
  - 触屏控制器, 自带语音控制功能, 方便进行各项操作, 实时查看制冷机组运行状态;
  - 压缩机过热保护、电器保险保护、制冷系统高低压力保护, 系统安全可靠;
  - 系统掉电自动保存所有设定值, 每次开机自动载入上述数据, 保存用户更改的设置;
  - 自动及手动除霜多种选择。
- Integrated structure for easy installation.
  - Combines power supply, inverter, and controller into one unit, reducing failure points and improving product stability.
  - Wide voltage design (DC260-750V), compatible with external power supply for operation.
  - Touchscreen controller with built-in voice control functionality for convenient operation and real-time monitoring of the refrigeration unit's status.
  - Equipped with overheat protection for the compressor, electrical insurance protection, and high/low pressure protection for the refrigeration system, ensuring system safety and reliability.
  - Automatic data preservation of all settings during power outages, with automatic reloading of saved data upon startup, retaining user adjustments.
  - Multiple defrost options, including automatic and manual modes.



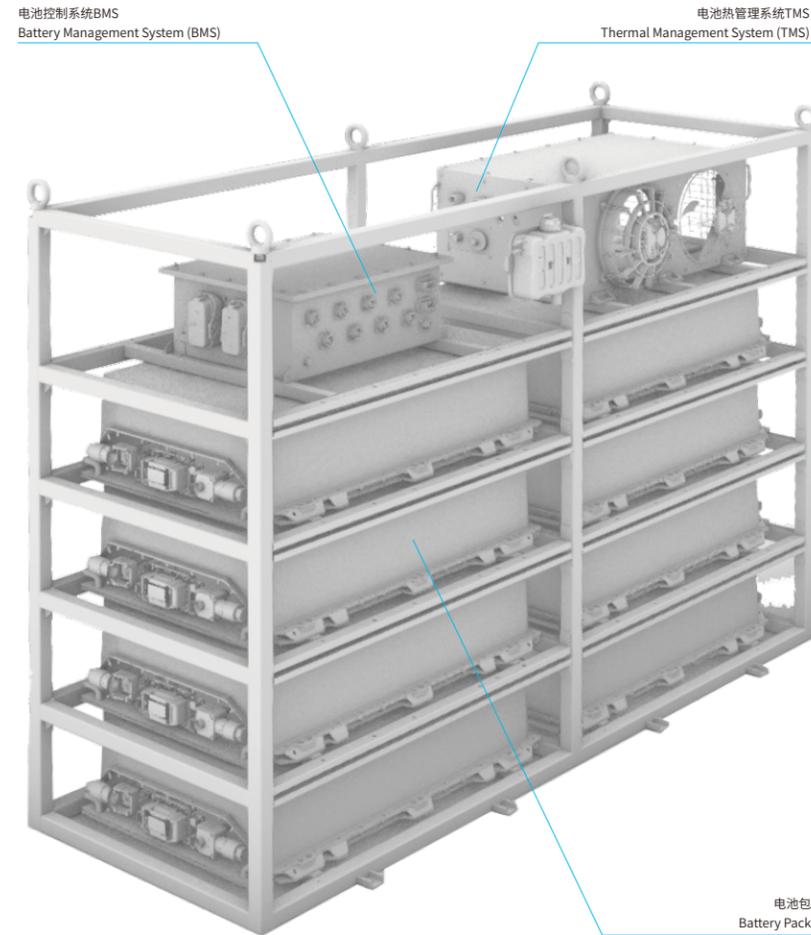
# 新能源零部件

电池及储能

# NEW ENERGY COMPONENTS

BATTERY AND ENERGY  
STORAGE

## 动力电池系统 POWER BATTERY SYSTEM



混合动力电池系统是指用来提供驱动动力的一种能量储存装置。这个装置是由电池pack、电池热管理系统、BMS、电气及机械系统所组成。  
The hybrid power battery system refers to an energy storage device used to provide driving power. This system consists of a battery pack, battery thermal management system, battery management system (BMS), and electrical and mechanical systems.

### 系统优势 SYSTEM ADVANTAGES

类型	优势
灵活定制	外框结构，电池总量，线路布局均可根据车型车款进行全方位定制，满足各类特化需求。 The external frame structure, total battery capacity, and circuit layout can all be fully customized according to the vehicle model and variant to meet various specialized requirements.
高效研发	凯鹏研发中心的研发团队，拥有业界领先的研发能力在不限于集成系统，控制系统，动力系统等方面都有丰富经验，响应速度快。 The R&D team at Kaipeng Research Center possesses industry-leading research and development capabilities, with extensive experience in areas including but not limited to integrated systems, control systems, and power systems. The team is highly responsive and efficient.
售后服务	24小时极速响应，48小时全国触达凯鹏拥有完备的售后服务链路，强大的售后团队。 Kaipeng provides a comprehensive after-sales service network and a strong support team, ensuring 24-hour rapid response and nationwide coverage within 48 hours.

## 移动式充储一体柜 MOBILE INTEGRATED CHARGING AND ENERGY STORAGE CABINET



### 系统参数 SYSTEM PARAMETERS

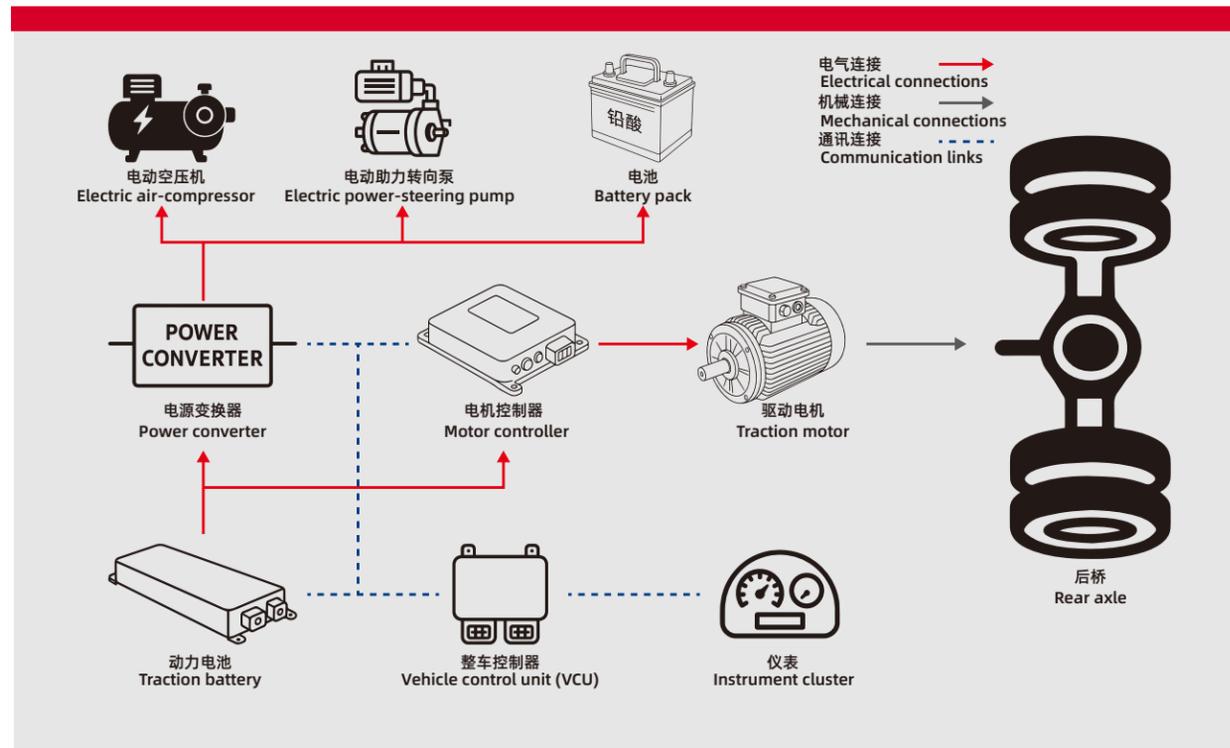
型号规格	HS/S08A20	HS/S15A20	HS/S23A20	HS/S30A20
整站电量	772 kWh	1544 kWh	2316 kWh	3088 kWh
电芯规格	314 Ah	314 Ah	314 Ah	314 Ah
电池簇	2	4	6	8
最大持续输出功率	380 kW	760 kW	1140 kW	1520 kW
1500V输出	输出电压	1036.8-1401.6Vdc		
	输出方式	1500Vd快插接口		
	工作模式	1、直连用电设备（电缆绞盘可选配）		
750V输出	输出电流	1路 额定289A	1路 额定289A	2路 额定289A
	输出电压	DC400V-DC750V		
	输出方式	750Vd快插接口		
启动充电方式	工作模式	1、直连用电设备（电缆绞盘可选配）；2、充电枪输出（选配）		
	输出电流	1-3路 250A	1-6路 250A	2-8路 250A
充电端口人机界面	本地刷卡或扫码启动			
储能电池充电方式	7 "TFT HMI"			
储能电池充电电压	Hillsea-MCS超级快充站			
储能电池充电电流	250A	500A	1000A	1500A
BMS辅源	1500Vdc			
BMS通讯协议	24V DC			
通讯接口	GB/T 27930-2015			
防护等级	CAN 2.0B; RS-485; Ethernet; WIFI/4G;			
冷却方式	IP54			
整站尺寸	(W*D*H) 3030*2438*1896mm集装箱		(W*D*H) 6055*2438*2896mm集装箱	
重量	8T	15T	25T	32T
安装方式	智能液冷			
	支持吊装、可车载移动			

# 新能源系统集成

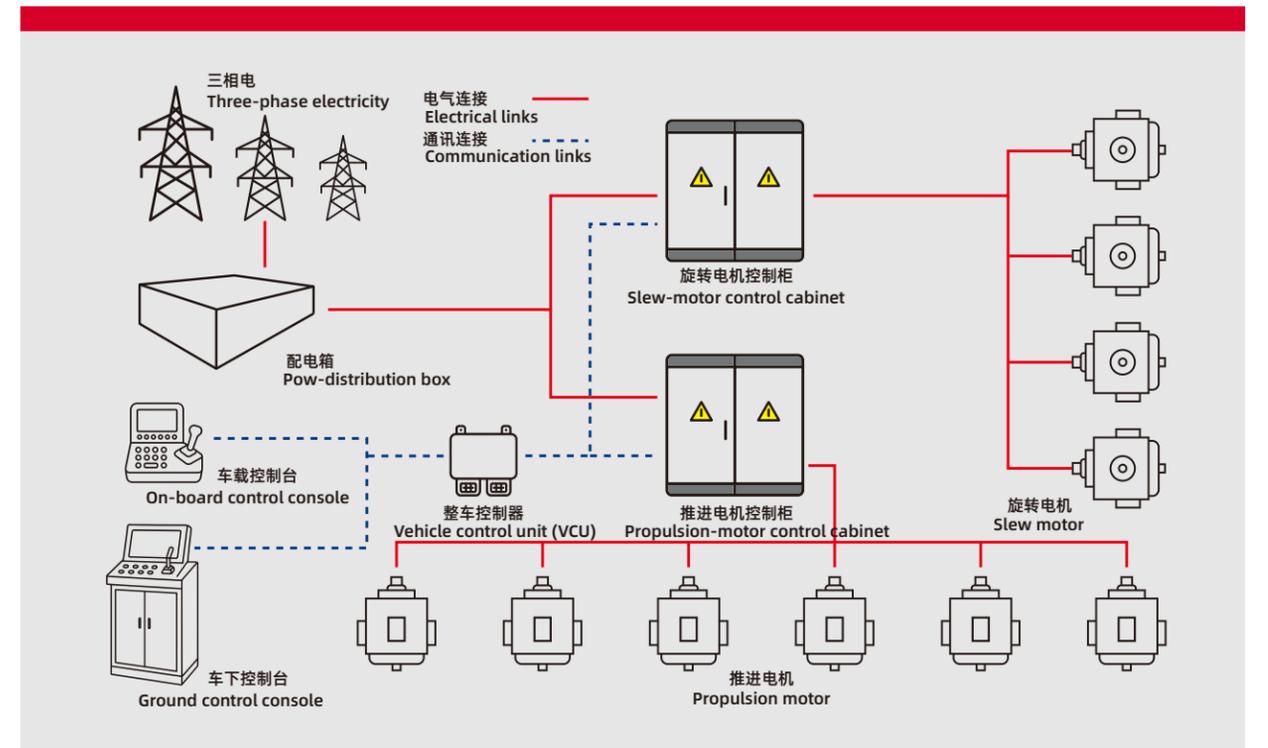
# NEW ENERGY SYSTEM INTEGRATION



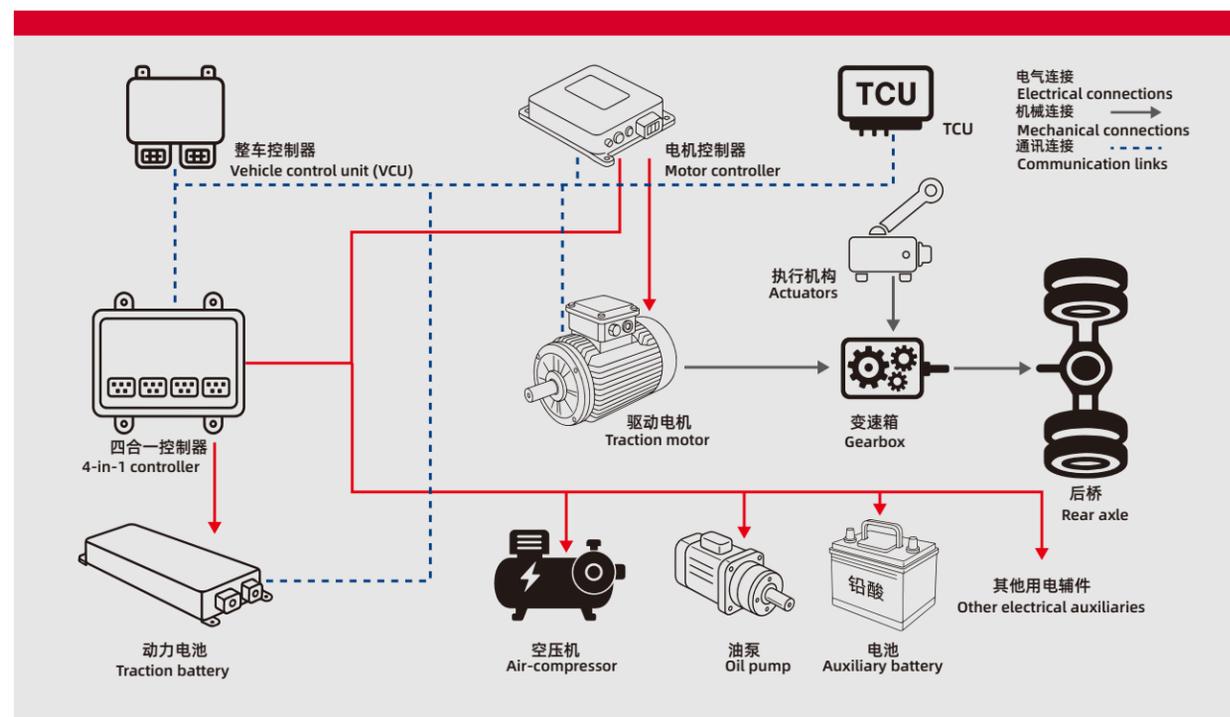
公交车油改电系统集成 BUS DIESEL-TO-ELECTRIC CONVERSION INTEGRATED SYSTEM



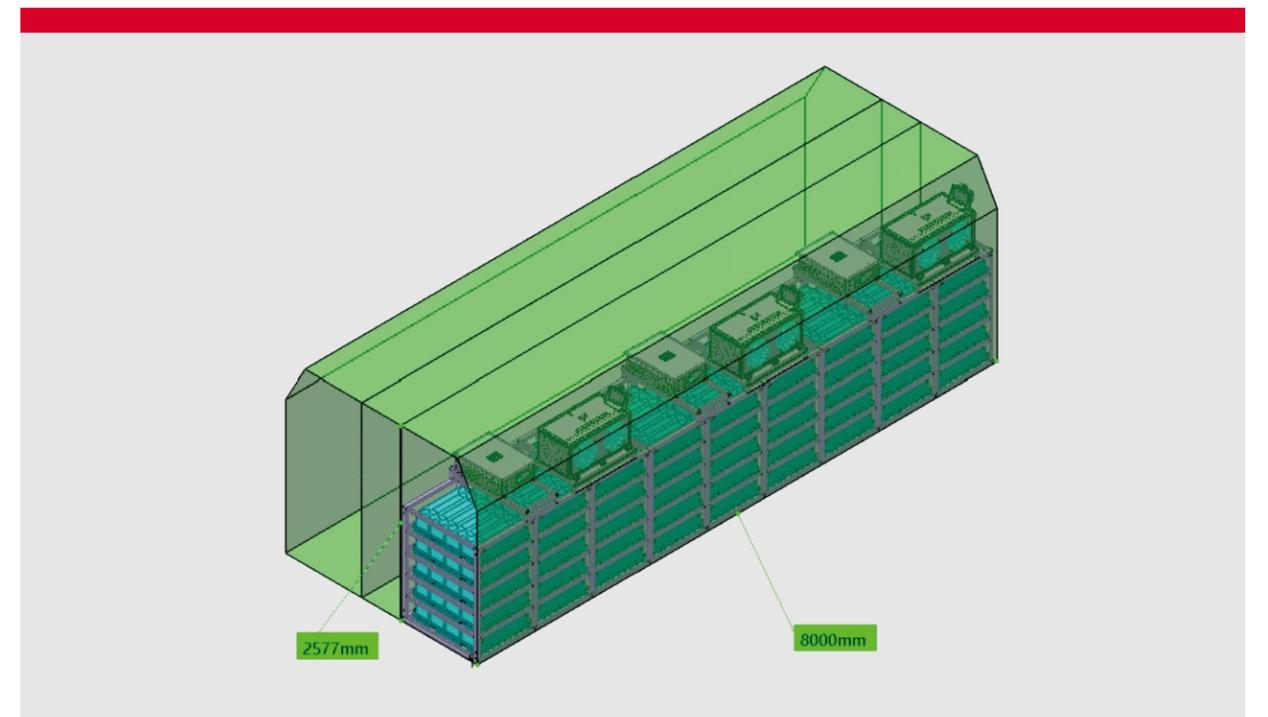
工程机械油改电系统集成 CONSTRUCTION-MACHINERY DIESEL-TO-ELECTRIC CONVERSION INTEGRATED SYSTEM



重型卡车油改电系统集成 HEAVY TRUCK DIESEL-TO-ELECTRIC CONVERSION INTEGRATED SYSTEM



轨道交通油改电系统集成 RAIL-TRANSIT DIESEL-TO-ELECTRIC CONVERSION INTEGRATED SYSTEM

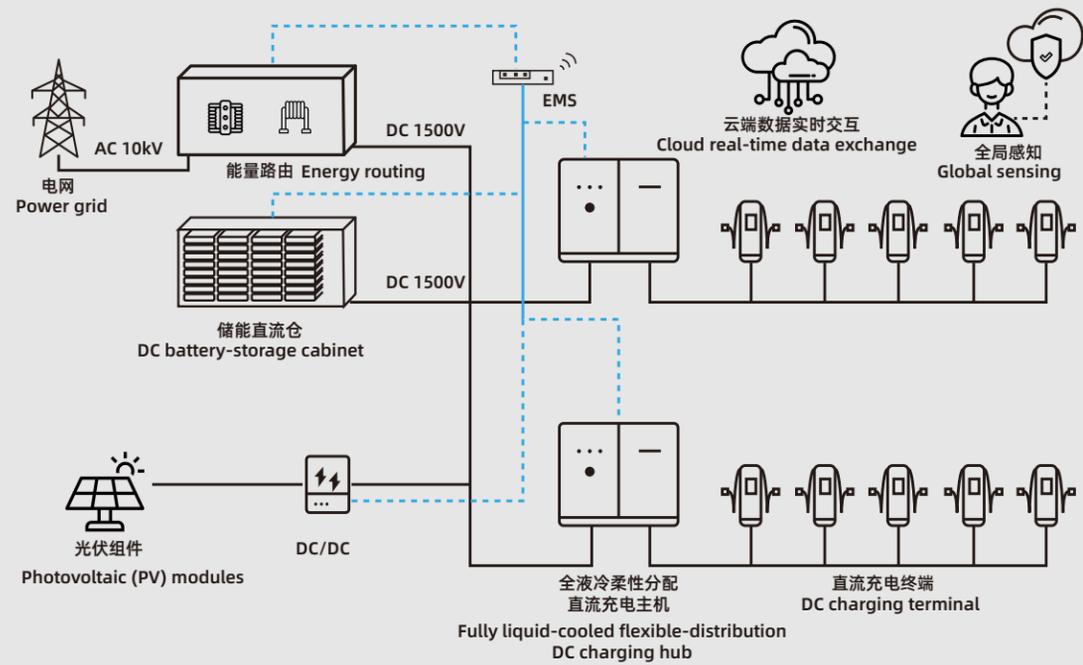


# 新能源场景解决方案

# NEW ENERGY SCENARIO SOLUTIONS



光储充场景解决方案 PV-STORAGE-CHARGING SCENARIO SOLUTION



新能源运输场景电动化解决方案 NEW ENERGY TRANSPORTATION ELECTRIFICATION SOLUTION



**矿山开采**  
Mining

矿用电动卡车（含传统矿卡油改电）  
替代燃油矿卡，配套高功率充储一体柜  
Electric mining trucks (including ICE-to-electric retrofits) replace diesel units,  
supported by high-power charge-and-storage cabinets.



**港口运输**  
Port Logistics

电动港口集卡，轮胎吊（含油改电）  
替代燃油器械，配套快充满足高频作业  
Electric terminal tractors and rubber-tyred gantries (incl. retrofits) replace  
diesel equipment, with fast-charging for high-frequency operations.



**公路物流**  
Highway Freight

电动重卡（含油改电）用于干线物流  
配备大容量电池，沿高速布局超充站  
Electric heavy-duty trucks (incl. retrofits) for long-haul logistics, fitted  
with large batteries and supported by ultra-fast chargers along highways.



**城市建设**  
Urban Construction

城市施工车辆（如渣土车、搅拌车）  
纯电动化（含油改电升级）  
工地或基地部署超充设施  
Pure-electric job-site vehicles (e.g., dump trucks, concrete mixers  
—including retrofits), with ultra-fast charging at sites or depots.



**市政环卫**  
Municipal Sanitation

市政环卫（垃圾清运车、清扫车）  
纯电动化（含油改电）  
依托环卫基地夜间充电。  
Pure-electric sanitation trucks (garbage collectors, sweepers  
—including retrofits) charge overnight at sanitation depots.



**厂内运输**  
In-Plant Transport

场内物流车辆（如叉车、牵引车）  
纯电动化（含油改电）  
配套超充站  
Pure-electric internal-logistics vehicles (forklifts, tow tractors  
—including retrofits) supported by on-site ultra-fast chargers.

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**SEIKO QUALITY**

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产品走向全球 **PRODUCTS TO THE WORLD**



合作客户 **PARTNER**



