



成为全球汽车压缩机的引领者

Become the global pioneer in automotive compressors

上海爱卫蓝新能源科技有限公司

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产品宣传册

PRODUCT BROCHURE

## 爱卫蓝公司简介

### INTRODUCTION OF EVERLAND AMPEREX TECHNOLOGY

上海爱卫蓝新能源科技有限公司成立于2016年6月，地处上海安亭国际汽车城，聚集了业内各方面优秀人才，并投入世界一流的研发和生产设备，是一家集研发、设计、制造于一体的新能源汽车空调电动压缩机的高科技企业。

Shanghai Everland Amperex Technology Co., Ltd. was founded in June 2016, situated in Anting International Automobile City, Shanghai. It has gathered outstanding talents across various sectors of the industry and invested in world-class R&D and production equipment. As a high-tech enterprise, it integrates research, development, design, and manufacturing of electric compressors for new energy vehicle air conditioners.

- 专注于新能源汽车电动压缩机产品，拥有补气增焓、新冷媒（R744）、高压SiC/三角循环应用、PTC+压缩机多合一等前沿技术；
- 拥有完善的压缩机试验中心，并通过国家CNAS认证；
- 在浙江湖州长兴建立了规模化生产制造基地，6条自动化线，合计产能300万台/年。
- Specialized in electric compressors for new energy vehicles, the company boasts cutting-edge technologies including: Vapor injection technology, Natural refrigerant (CO<sub>2</sub> /R744), High-voltage SiC/triangle cycle applications, PTC-compressor integrated systems.
- Has a perfect compressor test center, and released by the national CNAS(China National Accreditation Service for Conformity Assessment);
- In Zhejiang Huzhou Changxing established a large-scale production and manufacturing base, 6 automation lines, a total capacity of 3million units.

让您的驾乘空间更舒适

*Optimize thermal comfort in your driving environment*

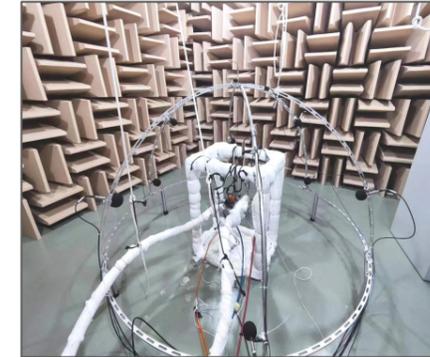
# 生产车间

MANUFACTURING WORKSHOP



# 研发设备

RESEARCH AND DEVELOPMENT EQUIPMENTS



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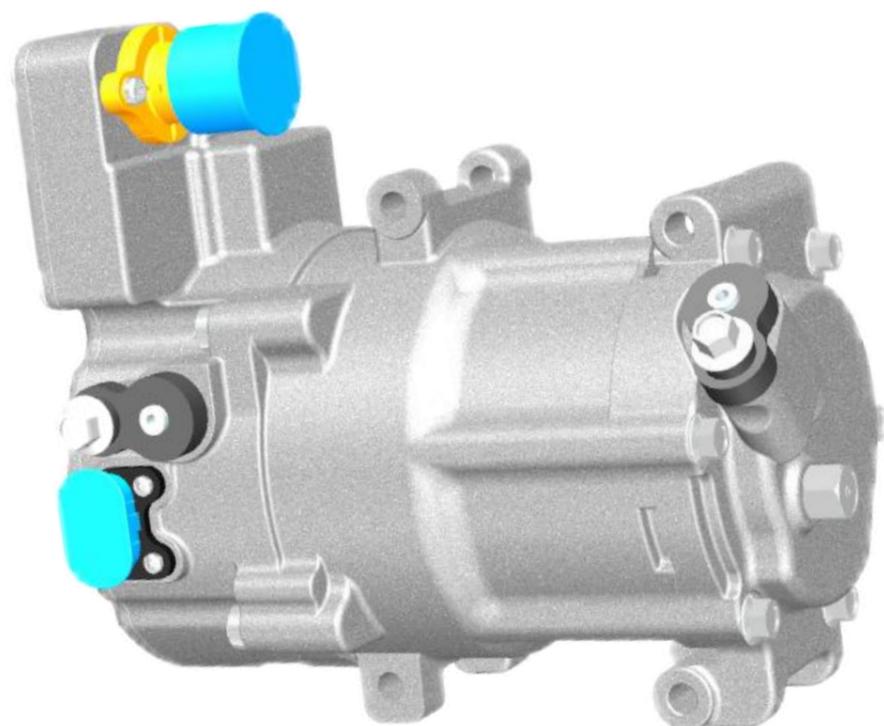
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# 理想 L7~ L9

## LI AUTO L7~ L9



关键参数 Key Parameter	参数详情 Parameter Details
排量 Displacement	34cc
电压范围 Voltage Range	190-470V
转速范围 Speed Range	800-8600rpm
通讯协议 Communication Protocol	CAN
防护等级 Protection Level	IP6K9K
重量 Weight	≤6.32kg
工作温度 Operating Temperature	-20-120°C
能效比 Energy Efficiency Ratio	2.48
噪音 Noise	73dB@8000rpm

### 应用场景:

- 驾驶舱热管理
- 电池、驱动系统热管理
- 常规制冷制热场景

### Application Areas:

- Cockpit thermal management
- Thermal management of the battery and drive system
- Conventional cooling and heating scenarios

### 客户获益:

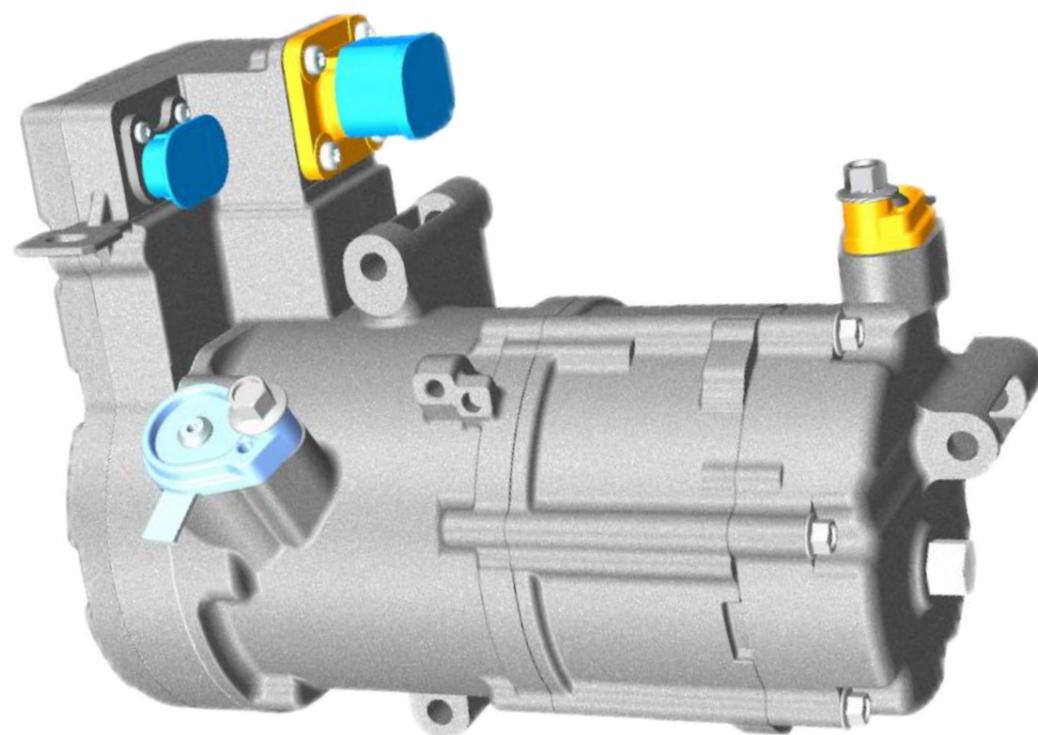
- 稳定可靠, 可轻松实现各种场景下的自适应性, 提供给客户舒适的最佳性价比体验。
- 高效稳定, 平台化设计, 提供最优质量表现和稳定性。
- 轻量化, 小尺寸, 减少整车重量。

### Customer Benefits:

- It is stable and reliable, and can effortlessly achieve adaptability in various scenarios, offering customers a comfortable experience with the best cost-performance ratio.
- Highly efficient and stable. Thanks to the platform-based design, it delivers the optimal quality performance and stability.
- Lightweight and compact in size, which helps reduce the overall weight of the vehicle.

# 理想 MEGA

## LI AUTO MEGA



关键参数 Key Parameter	参数详情 Parameter Details
排量 Displacement	43cc
电压范围 Voltage Range	450-900V
转速范围 Speed Range	600-11000rpm
通讯协议 Communication Protocol	CAN FD
防护等级 Protection Level	IP67&IP6K9K
重量 Weight	≤7.5kg
工作温度 Operating Temperature	-30-100°C
能效比 Energy Efficiency Ratio	2.4
噪音 Noise	80dB@8000rpm

### 应用场景:

- 驾驶舱热管理
- 电池、驱动系统热管理
- 超充, 极致静音

### Application Areas:

- Cockpit thermal management
- Thermal management of the battery and drive system
- Ultra-fast charging, extremely silent operation

### 客户获益:

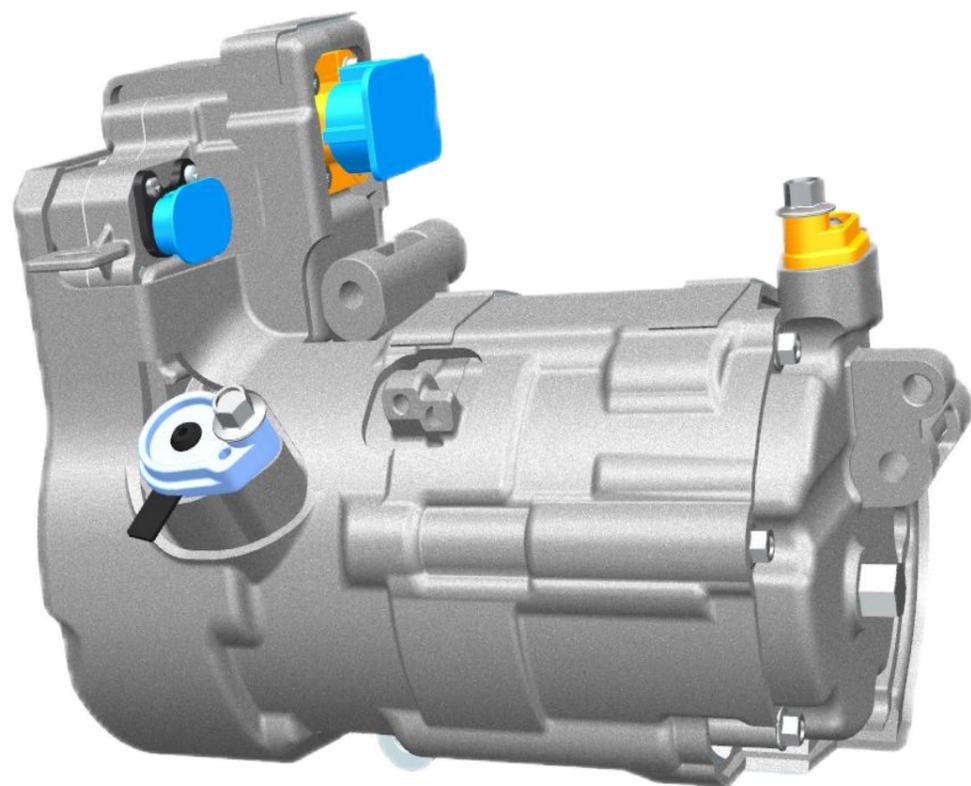
- 稳定可靠, 可轻松实现各种场景下的自适应性, 提供给客户舒适的最佳性价比体验。
- 高效稳定, 平台化设计, 提供最优质量表现和稳定性。
- 轻量化, 小尺寸, 减少整车重量。

### Customer Benefits:

- With an ultra-high rotational speed of 12,000 rpm, it can easily achieve fast charging of the vehicle, increase the vehicle's driving range, and operate with extremely quiet performance, providing customers with a quiet and comfortable driving and riding experience.
- High-efficiency SiC (Silicon Carbide) and efficient communication, which improves the efficiency of battery thermal management.
- Lightweight and small in size, helping to reduce the overall weight of the vehicle.

# 理想 I7~I8

## LI AUTO I7~I8



关键参数 Key Parameter	参数详情 Parameter Details
排量 Displacement	43cc
电压范围 Voltage Range	420-740V
转速范围 Speed Range	600-11000rpm
通讯协议 Communication Protocol	CAN
防护等级 Protection Level	IP67&IP6K9K
重量 Weight	≤7.3kg
工作温度 Operating Temperature	-30-100°C
能效比 Energy Efficiency Ratio	2.4
噪音 Noise	80dB@8000rpm

### 应用场景:

- 驾驶舱热管理
- 电池、驱动系统热管理
- 超充, 超静音

### Application Areas:

- Cockpit thermal management
- Thermal management of the battery and drive system
- Ultra-fast charging and ultra-silent operation

### 客户获益:

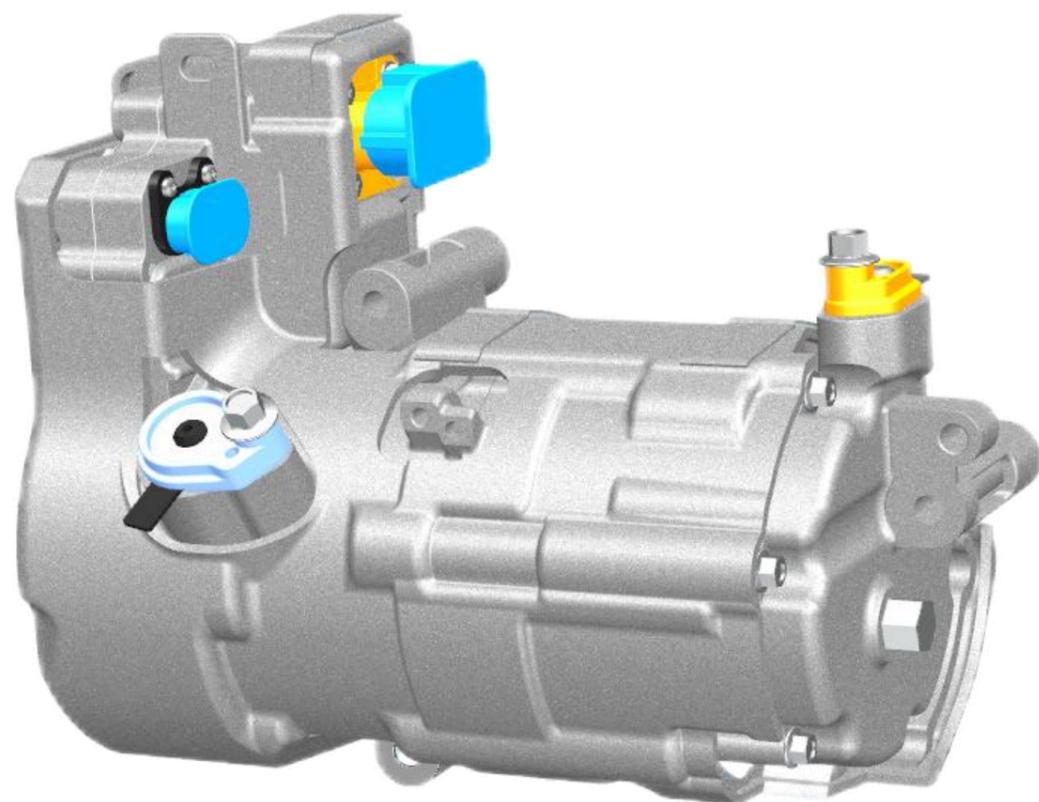
- 超高转速12,000rpm, 可轻松实现车辆快充, 提高车辆续航里程超静音, 提供给客户安静舒适的驾乘体验。
- 高效稳定, 提高电池热管理效率。
- 轻量化, 小尺寸, 减少整车重量。

### Customer Benefits:

- Super high speed 12,000 rpm to realize the super charging and extend the range of BEVs Ultra-silence, providing customers a quiet and comfortable driving experience
- High efficiency and stability, improving the thermal management efficiency of battery
- Light weight, small size

# 理想 I6

## LI AUTO I6



关键参数 Key Parameter	参数详情 Parameter Details
排量 Displacement	43cc
电压范围 Voltage Range	390-750V
转速范围 Speed Range	600-11000rpm
通讯协议 Communication Protocol	CAN
防护等级 Protection Level	IP67&IP6K9K
重量 Weight	≤7.3kg
工作温度 Operating Temperature	-30-100°C
能效比 Energy Efficiency Ratio	2.4
噪音 Noise	80dB@8000rpm

### 应用场景:

- 驾驶舱热管理
- 电池、驱动系统热管理
- 超充

### Application Areas:

- Cockpit thermal management
- Thermal management of the battery and drive system
- Ultra-fast charging and ultra-silent operation

### 客户获益:

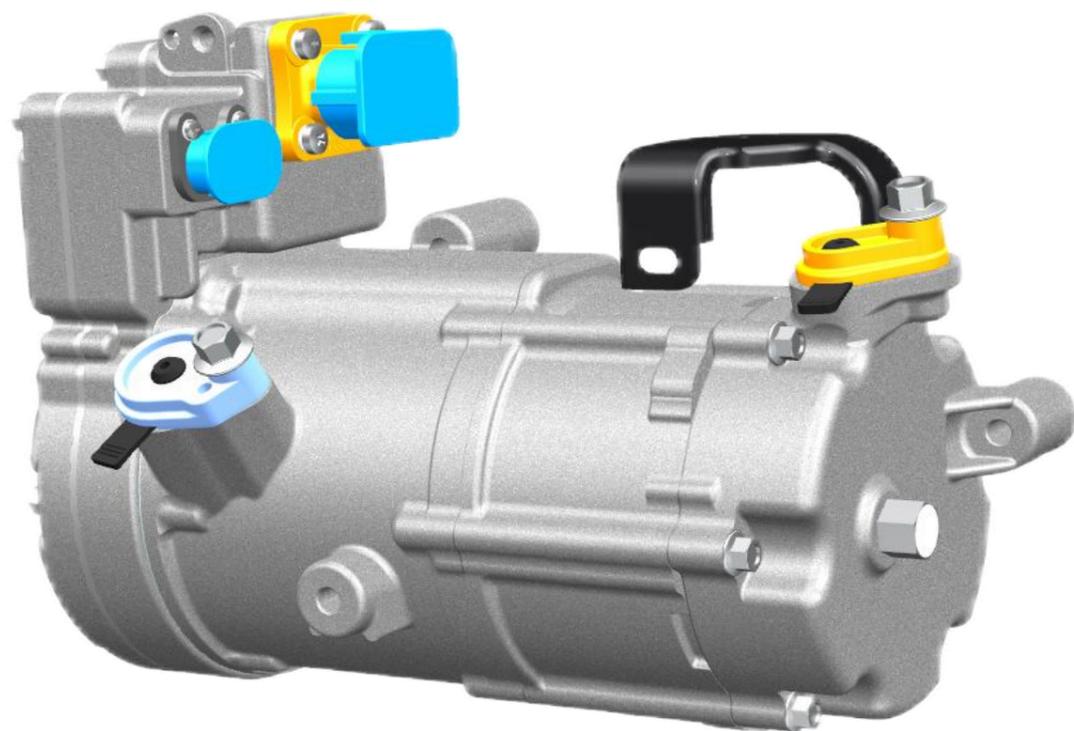
- 超高转速12,000rpm, 可轻松实现车辆快充, 提高车辆续航里程超静音, 提供给客户安静舒适的驾乘体验。
- 高效稳定, 提高电池热管理效率。
- 轻量化, 小尺寸, 减少整车重量。

### Customer Benefits:

- Super high speed 12,000 rpm to realize the super charging and extend the range of BEVs Ultra-silence, providing customers a quiet and comfortable driving experience
- High efficiency and stability, improving the thermal management efficiency of battery
- Light weight, small size

# 小鹏 P7+ / G6 / X9

## XPENG P7+ / G6 / X9



关键参数 Key Parameter	参数详情 Parameter Details
排量 Displacement	43cc
电压范围 Voltage Range	280-800V
转速范围 Speed Range	600-11000rpm
通讯协议 Communication Protocol	CAN
防护等级 Protection Level	IP67&IP6K9K
重量 Weight	≤7.2kg
工作温度 Operating Temperature	-30-115°C
能效比 Energy Efficiency Ratio	2.4
噪音 Noise	80dB@8000rpm

### 应用场景:

- 驾驶舱热管理
- 电池、驱动系统热管理
- 超充, 超低温热泵

### Application Areas:

- Cockpit thermal management
- Thermal management of the battery and drive system
- Ultra-fast charging, ultra-silent operation

### 客户获益:

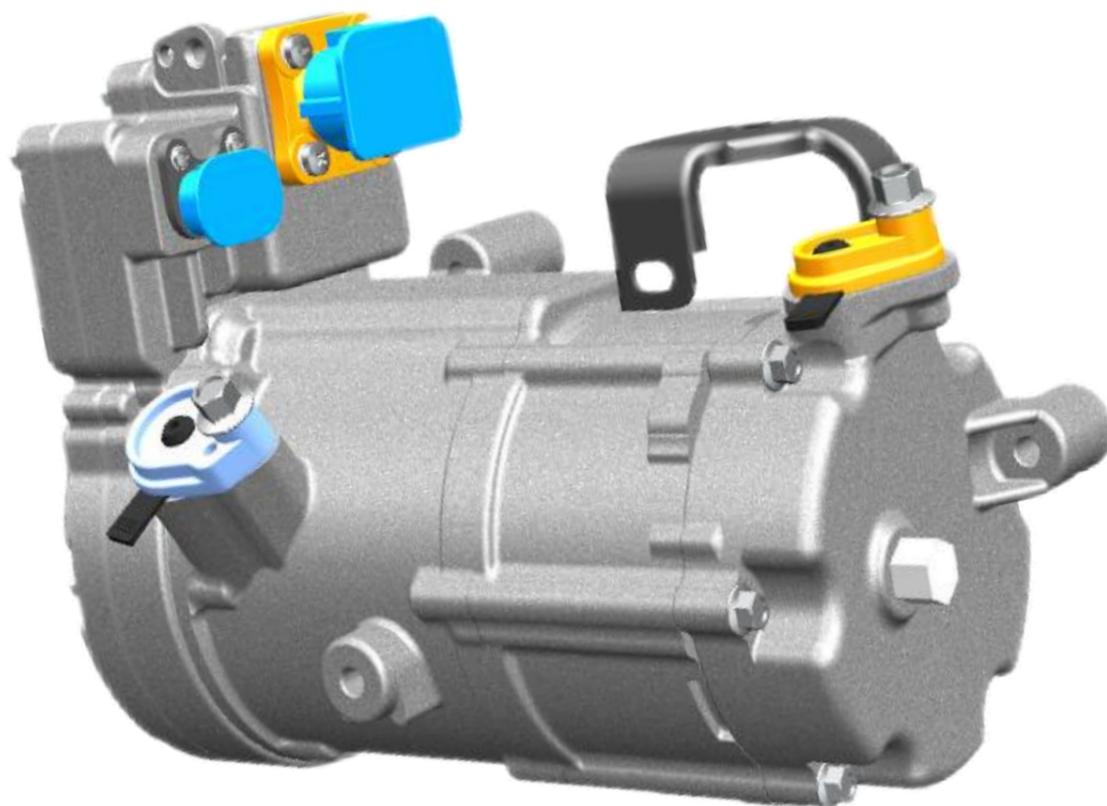
- 超高转速12,000rpm, 可轻松实现车辆快充, 提高车辆续航里程超静音, 提供给客户安静舒适的驾乘体验。
- 高效Sic, 提高电池热管理效率。
- 轻量化, 大能量, 支持-40°C高效制热。

### Customer Benefits:

- With an ultra-high rotational speed of 12,000 rpm, it can easily enable fast charging of the vehicle, increasing the vehicle's driving range. It is ultra-silent, providing customers with a quiet and comfortable driving and riding experience.
- Highly efficient and stable, improving the efficiency of battery thermal management, and offers an extremely high cost-performance ratio.
- Lightweight yet has high energy capacity, and supports efficient heating at -40°C.

# 小鹏 P7i

## XPENG P7i



关键参数 Key Parameter	参数详情 Parameter Details
排量 Displacement	43cc
电压范围 Voltage Range	180-450V
转速范围 Speed Range	600-11000rpm
通讯协议 Communication Protocol	CAN
防护等级 Protection Level	IP67&IPX9K
重量 Weight	≤7.6kg
工作温度 Operating Temperature	-20-115°C
能效比 Energy Efficiency Ratio	2.4
噪音 Noise	80dB@8000rpm

### 应用场景:

- 驾驶舱热管理
- 电池、驱动系统热管理
- 超充

### Application Areas:

- Cockpit thermal management
- Thermal management of the battery and drive system
- Ultra-fast charging, ultra-silent operation

### 客户获益:

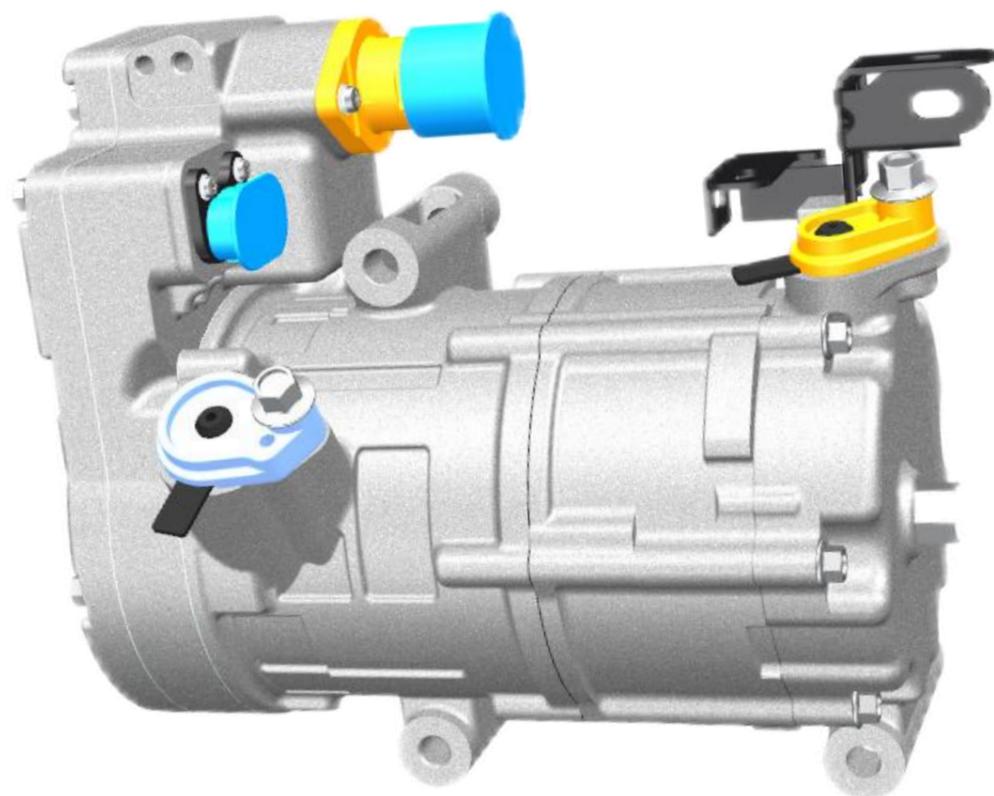
- 超高转速12,000rpm, 可轻松实现车辆快充, 提高车辆续航里程超静音, 提供给客户安静舒适的驾乘体验。
- 高效稳定, 提高电池热管理效率。
- 轻量化, 大能量, 支持-40°C高效制热。

### Customer Benefits:

- With an ultra-high rotational speed of 12,000 rpm, it can easily enable fast charging of the vehicle, increasing the vehicle's driving range. It is ultra-silent, providing customers with a quiet and comfortable driving and riding experience.
- Highly efficient and stable, improving the efficiency of battery thermal management, and offers an extremely high cost-performance ratio.
- Lightweight yet has high energy capacity, and supports efficient heating at -40°C.

# 小鹏 D01a

## XPENG D01a



关键参数 Key Parameter	参数详情 Parameter Details
排量 Displacement	34cc
电压范围 Voltage Range	150-510V
转速范围 Speed Range	800-11000rpm
通讯协议 Communication Protocol	CAN
防护等级 Protection Level	IP67&IPX9K
重量 Weight	≤6.2kg
工作温度 Operating Temperature	-30-115°C
能效比 Energy Efficiency Ratio	2.4
噪音 Noise	80dB@8000rpm

### 应用场景:

- 驾驶舱热管理
- 电池、驱动系统热管理
- 超充, 宽域运行

### Application Areas:

- Cockpit thermal management
- Thermal management of the battery and drive system
- Ultra-fast charging, ultra-silent operation

### 客户获益:

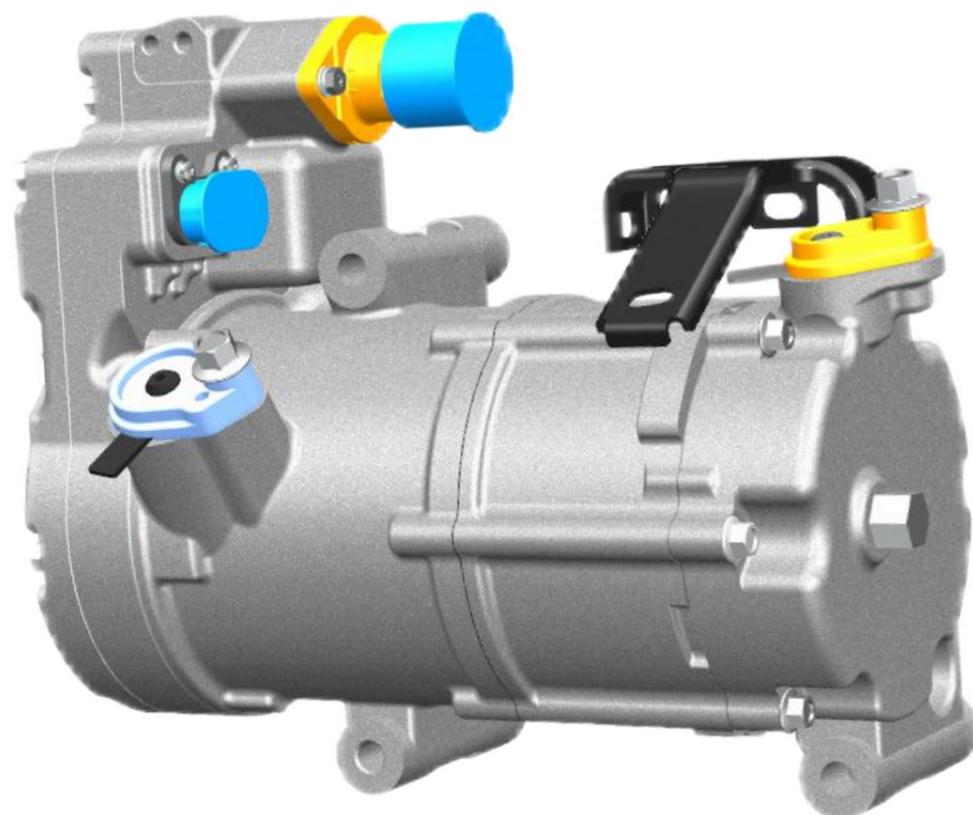
- 超高转速12,000rpm, 可轻松实现车辆快充, 提高车辆续航里程超静音, 提供给客户安静舒适的驾乘体验。
- 高效稳定, 提高电池热管理效率。
- 轻量化, 大能量, 支持-40°C高效制热。

### Customer Benefits:

- With an ultra-high rotational speed of 12,000 rpm, it can easily enable fast charging of the vehicle, increasing the vehicle's driving range. It is ultra-silent, providing customers with a quiet and comfortable driving and riding experience.
- Highly efficient and stable, improving the efficiency of battery thermal management, and offers an extremely high cost-performance ratio.
- Lightweight yet has high energy capacity, and supports efficient heating at -40°C.

# 小鹏 G01EV/G01

## XPENG G01EV/G01



关键参数 Key Parameter	参数详情 Parameter Details
排量 Displacement	43cc
电压范围 Voltage Range	280-800V
转速范围 Speed Range	600-11000rpm
通讯协议 Communication Protocol	CAN
防护等级 Protection Level	IP67&IPX9K
重量 Weight	≤7.2kg
工作温度 Operating Temperature	-30-115°C
能效比 Energy Efficiency Ratio	2.4
噪音 Noise	80dB@8000rpm

### 应用场景:

- 驾驶舱热管理
- 电池、驱动系统热管理
- 超充, 超静音

### Application Areas:

- Cockpit thermal management
- Thermal management of the battery and drive system
- Ultra-fast charging, ultra-silent operation

### 客户获益:

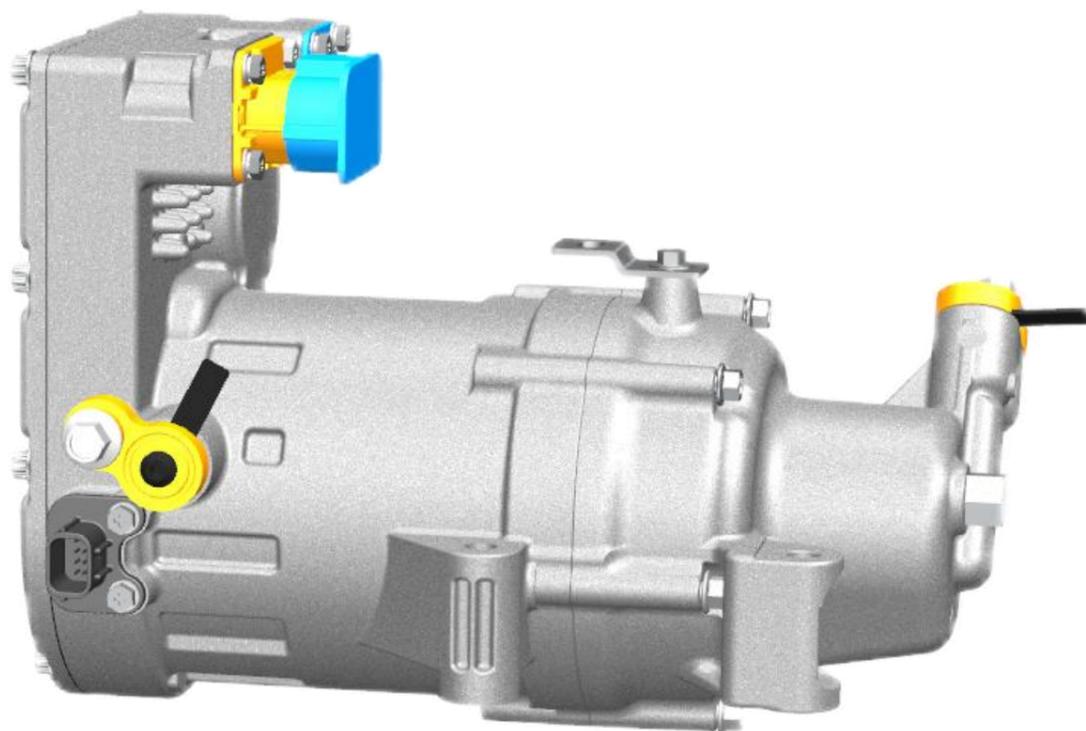
- 超高转速12,000rpm, 可轻松实现车辆快充, 提高车辆续航里程超静音, 提供给客户安静舒适的驾乘体验。
- 高效稳定, 提高电池热管理效率, 极致性价比。
- 轻量化, 大能量, 支持-40°C高效制热。

### Customer Benefits:

- With an ultra-high rotational speed of 12,000 rpm, it can easily enable fast charging of the vehicle, increasing the vehicle's driving range. It is ultra-silent, providing customers with a quiet and comfortable driving and riding experience.
- Highly efficient and stable, improving the efficiency of battery thermal management, and offers an extremely high cost-performance ratio.
- Lightweight yet has high energy capacity, and supports efficient heating at -40°C.

# 比亚迪 秦L EV/海豹06

BYD Qin L EV / Seal 06



关键参数 Key Parameter	参数详情 Parameter Details
排量 Displacement	27cc
电压范围 Voltage Range	184-435V
转速范围 Speed Range	800-7000rpm
通讯协议 Communication Protocol	CAN
防护等级 Protection Level	IP67&IP6K9K
重量 Weight	≤6.7kg
工作温度 Operating Temperature	-30-85°C
能效比 Energy Efficiency Ratio	2.4
噪音 Noise	74dB@8000rpm

### 应用场景:

- 驾驶舱热管理
- 电池、驱动系统热管理
- 高运行边界
- PTC多合一控制

### Application Areas:

Cockpit thermal management  
Thermal management of battery and drive system  
High operating boundary  
PTC multi-in-one control

### 客户获益:

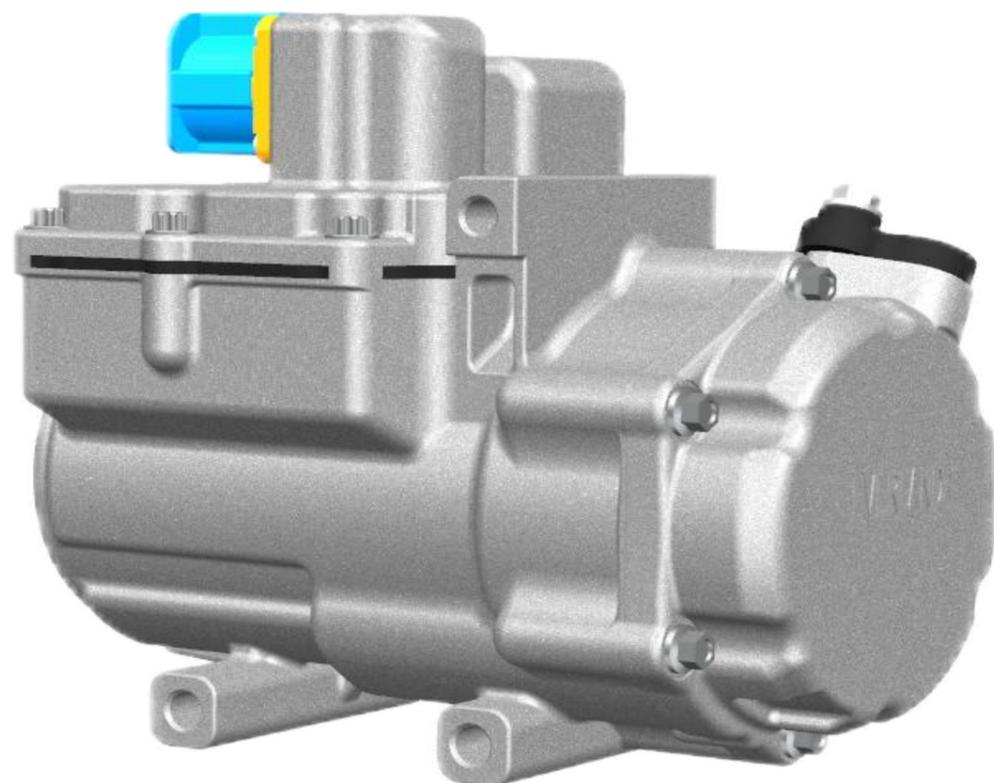
- PTC多合一控制器，可轻松帮助整车降本，宽运行边界，提供高可靠性的同时兼顾性价比。
- 高效稳定，提高电池热管理效率。
- 轻量化，小尺寸，多控制能力。

### Customer Benefits:

- The PTC multi-in-one controller can easily help reduce the overall vehicle cost. With a wide operating boundary, it takes into account both cost-effectiveness while providing high reliability.
- Highly efficient and stable, improving the efficiency of battery thermal management.
- Lightweight, small in size, and has multiple control capabilities.

# 瑞驰 EC35

## RUICHI EC35



关键参数 Key Parameter	参数详情 Parameter Details
排量 Displacement	27cc
电压范围 Voltage Range	240-410V
转速范围 Speed Range	1200-3600rpm
通讯协议 Communication Protocol	CAN
防护等级 Protection Level	IP67
重量 Weight	≤5.7kg
工作温度 Operating Temperature	-10-90°C
能效比 Energy Efficiency Ratio	2.4
噪音 Noise	63dB@8000rpm

### 应用场景:

- 驾驶舱热管理
- 电池、驱动系统热管理

### Application Areas:

- Cockpit thermal management
- Thermal management of the battery and drive system

### 客户获益:

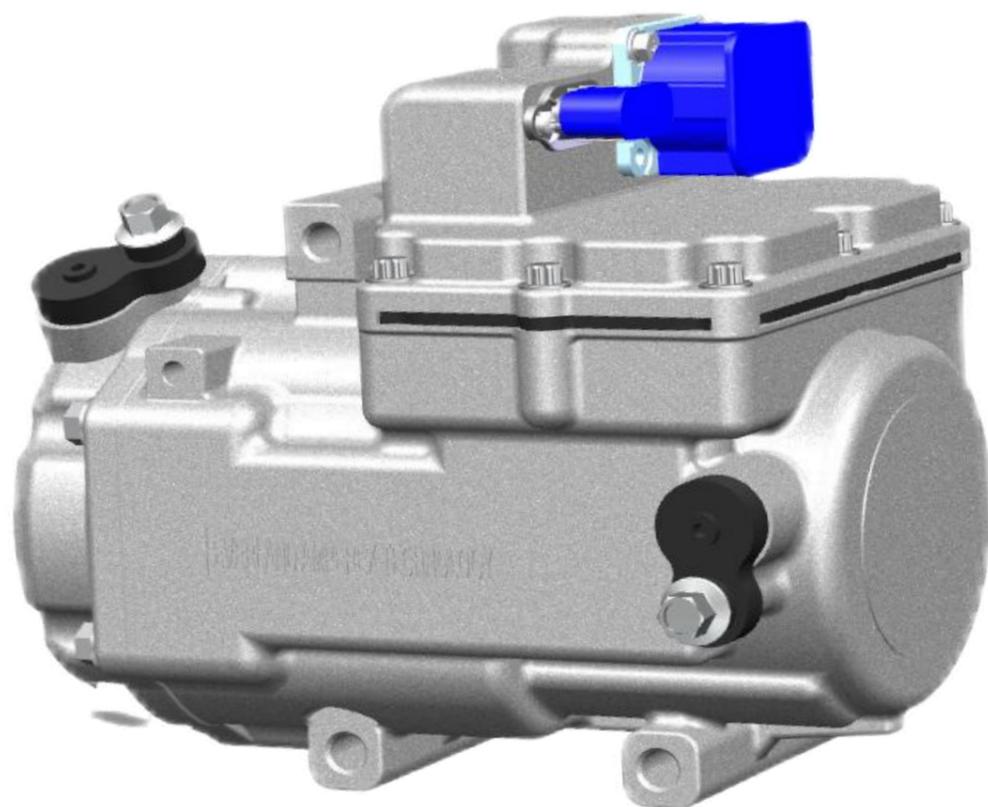
- 极致性价比, 稳定可靠, 高替代性。
- 稳定可靠, 提高高性价比的产品。
- 轻量化, 小尺寸, 提高整车匹配适应性。

### Customer Benefits:

- It has an extremely high cost-performance ratio, is stable and reliable, and has high substitutability.
- Stable and reliable, and provides products with a high cost-performance ratio.
- Lightweight and small in size, improving the adaptability of matching with the entire vehicle.

# 瑞驰 EC75

## RUICHI EC75



关键参数 Key Parameter	参数详情 Parameter Details
排量 Displacement	27cc
电压范围 Voltage Range	220-430V
转速范围 Speed Range	1000-4000rpm
通讯协议 Communication Protocol	CAN
防护等级 Protection Level	IP67
重量 Weight	≤5.7kg
工作温度 Operating Temperature	-20-85°C
能效比 Energy Efficiency Ratio	2.4
噪音 Noise	63dB@8000rpm

### 应用场景:

- 驾驶舱热管理
- 电池、驱动系统热管理

### Application Areas:

- Cockpit thermal management
- Thermal management of the battery and drive system

### 客户获益:

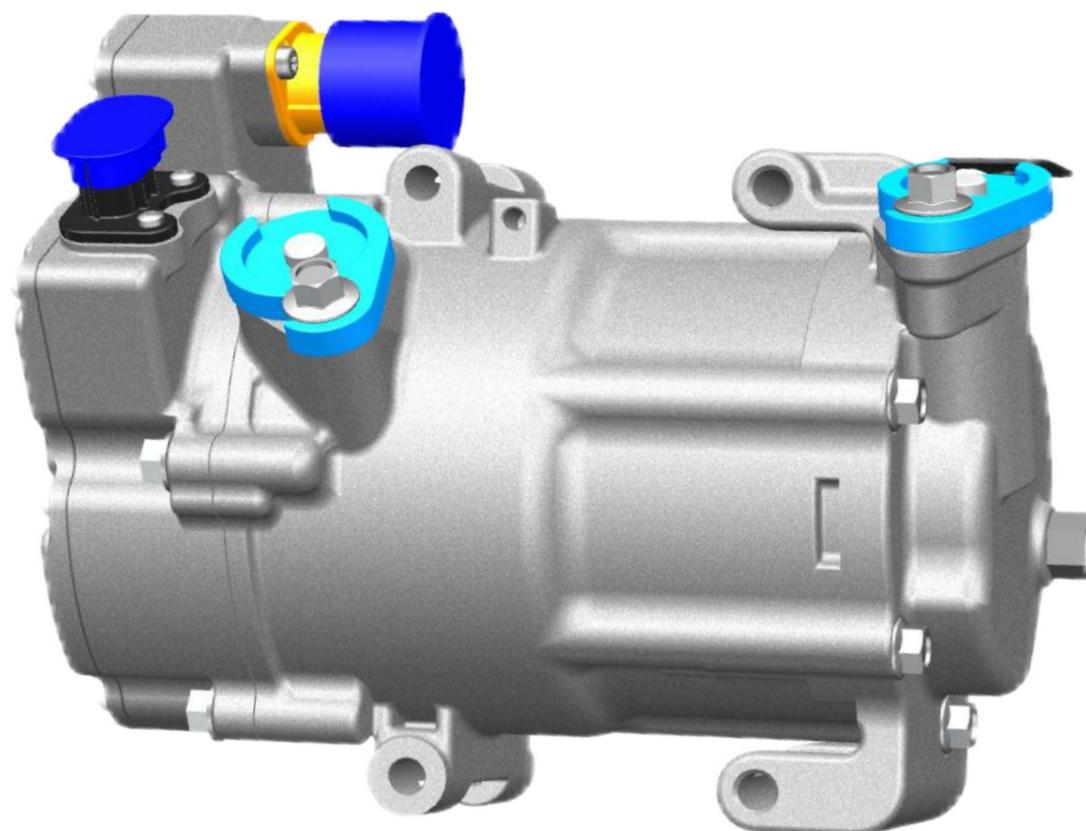
- 极致性价比, 稳定可靠, 高替代性。
- 稳定可靠, 提高高性价比的产品。
- 轻量化, 小尺寸, 提高整车匹配适应性。

### Customer Benefits:

- It has an extremely high cost-performance ratio, is stable and reliable, and has high substitutability.
- Stable and reliable, and provides products with a high cost-performance ratio.
- Lightweight and small in size, improving the adaptability of matching with the entire vehicle.

# 瑞驰 EC75

## RUICHI EC75



关键参数 Key Parameter	参数详情 Parameter Details
排量 Displacement	34cc
电压范围 Voltage Range	220-430V
转速范围 Speed Range	600-8000rpm
通讯协议 Communication Protocol	CAN
防护等级 Protection Level	IP67&IP6K9K
重量 Weight	≤6.3kg
工作温度 Operating Temperature	-40-120°C
能效比 Energy Efficiency Ratio	2.4
噪音 Noise	73dB@8000rpm

### 应用场景:

- 驾驶舱热管理
- 电池、驱动系统热管理
- 常规制冷制热场景

### Application Areas:

- Cockpit thermal management
- Thermal management of the battery and drive system
- Conventional cooling and heating scenarios

### 客户获益:

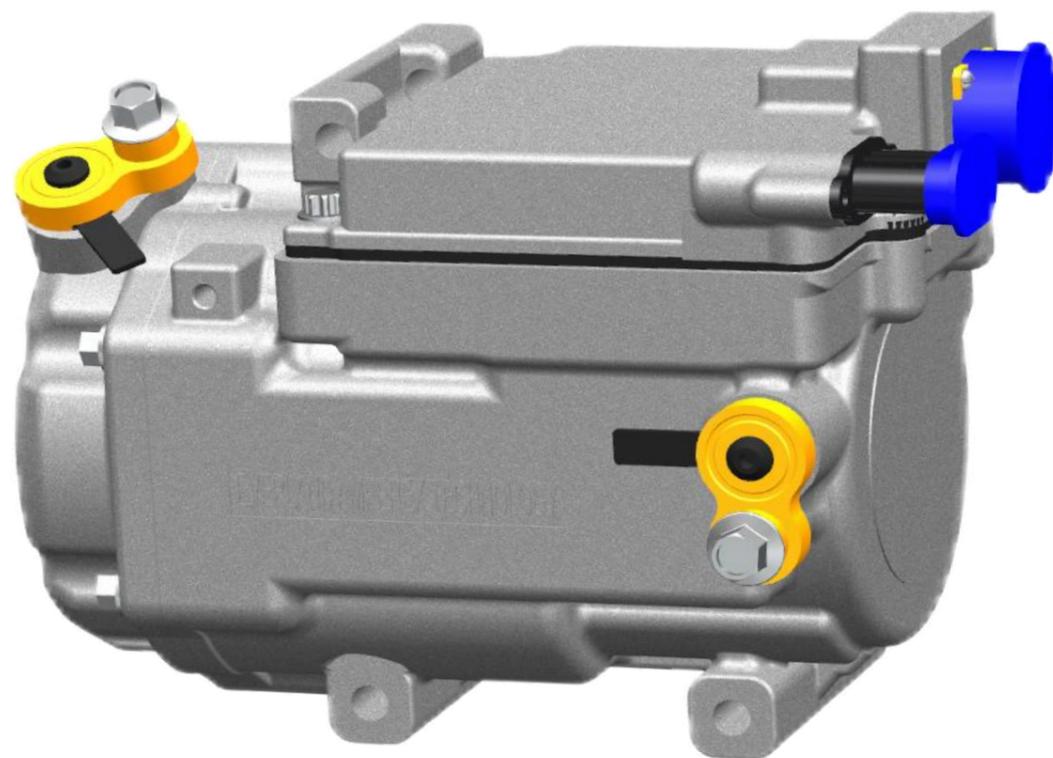
- 稳定可靠，可轻松实现各种场景下的自适应性，提供给客户舒适的最佳性价比体验。
- 高效稳定，平台化设计，提供最优质量表现和稳定性。
- 轻量化，小尺寸，减少整车重量。

### Customer Benefits:

- It is stable and reliable, and can effortlessly achieve adaptability in various scenarios, offering customers a comfortable experience with the best cost-performance ratio.
- Highly efficient and stable. Thanks to the platform-based design, it delivers the optimal quality performance and stability.
- Lightweight and compact in size, which helps reduce the overall weight of the vehicle.

# 长安跨越 星V5/星V7

## CAKY V5/V7



关键参数 Key Parameter	参数详情 Parameter Details
排量 Displacement	27cc
电压范围 Voltage Range	260-440V
转速范围 Speed Range	1000-6000rpm
通讯协议 Communication Protocol	CAN+PWM
防护等级 Protection Level	IP67
重量 Weight	≤5.6kg
工作温度 Operating Temperature	-20-85°C
能效比 Energy Efficiency Ratio	2.4
噪音 Noise	68dB@8000rpm

### 应用场景:

- 驾驶舱热管理
- 电池、驱动系统热管理

### Application Areas:

- Cockpit thermal management
- Thermal management of the battery and drive system

### 客户获益:

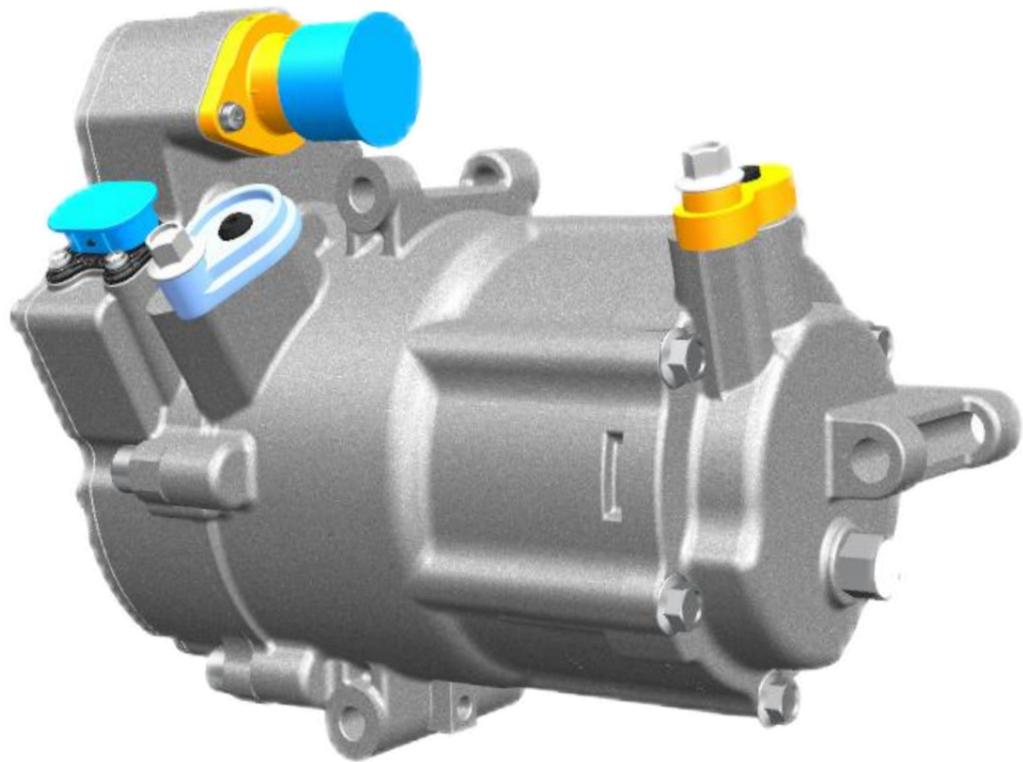
- 极致性价比, 稳定可靠, 高替代性。
- 稳定可靠, 提高高性价比的产品。
- 轻量化, 小尺寸, 提高整车匹配适应性。

### Customer Benefits:

- It has an extremely high cost-performance ratio, is stable and reliable, and has high substitutability.
- Stable and reliable, and provides products with a high cost-performance ratio.
- Lightweight and small in size, improving the adaptability of matching with the entire vehicle.

# 奥迪 BNB

## AUDI BNB



关键参数 Key Parameter	参数详情 Parameter Details
排量 Displacement	34cc
电压范围 Voltage Range	190~510V
转速范围 Speed Range	800~8500RPM
通讯协议 Communication Protocol	Lin
防护等级 Protection Level	IP67&IP6K9K
重量 Weight	≤6.3kg
工作温度 Operating Temperature	-25-125°C
能效比 Energy Efficiency Ratio	2.4
噪音 Noise	73dB@8000rpm

### 应用场景:

- 驾驶舱热管理
- 电池、驱动系统热管理
- 超充

### Application Areas:

- Cockpit thermal management
- Thermal management of the battery and drive system
- Ultra-fast charging

### 客户获益:

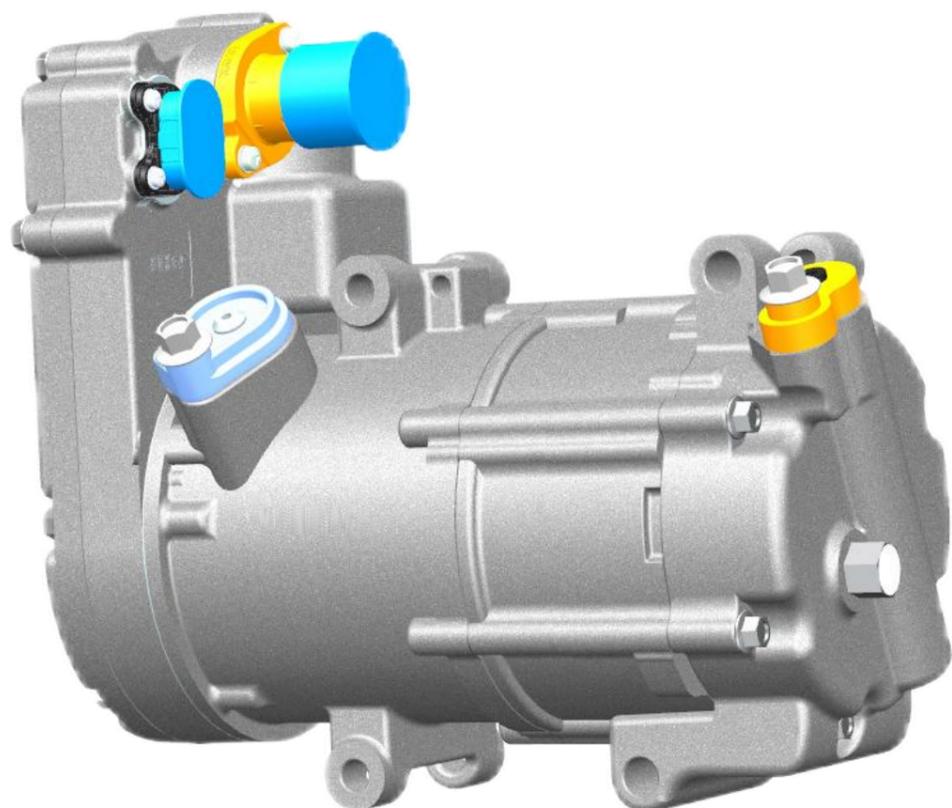
- 稳定可靠, 可轻松实现各种场景下的自适应性, 提供给客户舒适的最佳性价比体验。
- 高效稳定, 平台化设计, 提供最优质量表现和稳定性。
- 轻量化, 小尺寸, 减少整车重量。

### Customer Benefits:

- It is stable and reliable, and can easily achieve adaptability in various scenarios, providing customers with a comfortable experience featuring the best cost-performance ratio.
- Highly efficient and stable. With a platform-based design, it offers the optimal quality performance and stability.
- Lightweight and small in size, reducing the overall weight of the vehicle.

# 奥迪 BNB

## AUDI BNB



关键参数 Key Parameter	参数详情 Parameter Details
排量 Displacement	43cc
电压范围 Voltage Range	360~910V
转速范围 Speed Range	800~9000RPM
通讯协议 Communication Protocol	Lin
防护等级 Protection Level	IP67&IP6K9K
重量 Weight	≤7.5kg
工作温度 Operating Temperature	-25-125°C
能效比 Energy Efficiency Ratio	2.4
噪音 Noise	74dB@8000rpm

### 应用场景:

- 驾驶舱热管理
- 电池、驱动系统热管理
- 超充, 超静音

### Application Areas:

- Cockpit thermal management
- Thermal management of the battery and drive system
- Ultra-fast charging, ultra-silent operation

### 客户获益:

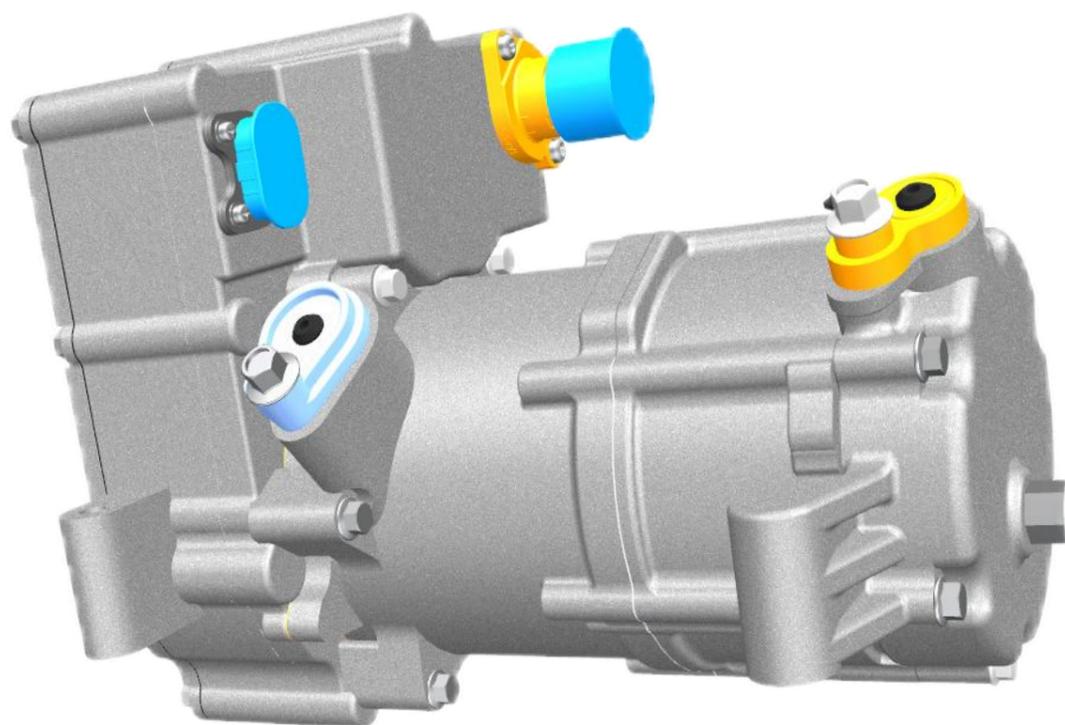
- 超高转速12,000rpm, 可轻松实现车辆快充, 提高车辆续航里程超静音, 提供给客户安静舒适的驾乘体验。
- 高效稳定, 提高电池热管理效率, 极致性价比。
- 轻量化, 大能量, 支持-40°C高效制热。

### Customer Benefits:

- With an ultra-high rotational speed of 12,000 rpm, it can easily enable fast charging of the vehicle, increasing the vehicle's driving range. It is ultra-silent, providing customers with a quiet and comfortable driving and riding experience.
- Highly efficient and stable, improving the efficiency of battery thermal management, and offers an extremely high cost-performance ratio.
- Lightweight yet has high energy capacity, and supports efficient heating at -40°C.

# 奥迪C SUVe

## AUDI C SUVe



关键参数 Key Parameter	参数详情 Parameter Details
排量 Displacement	43cc
电压范围 Voltage Range	250-890V
转速范围 Speed Range	800~9000rpm
通讯协议 Communication Protocol	CAN
防护等级 Protection Level	IP67&IP6K9K
重量 Weight	≤8.4kg
工作温度 Operating Temperature	-25-125°C
能效比 Energy Efficiency Ratio	2.4
噪音 Noise	78dB@8000rpm

### 应用场景:

- 驾驶室热管理
- 电池、驱动系统热管理
- 高运行边界
- WPTC集成式压缩机

### Application Areas:

- Cockpit thermal management
- Thermal management of the battery and drive system
- High operating boundary
- WPTC integrated compressor

### 客户获益:

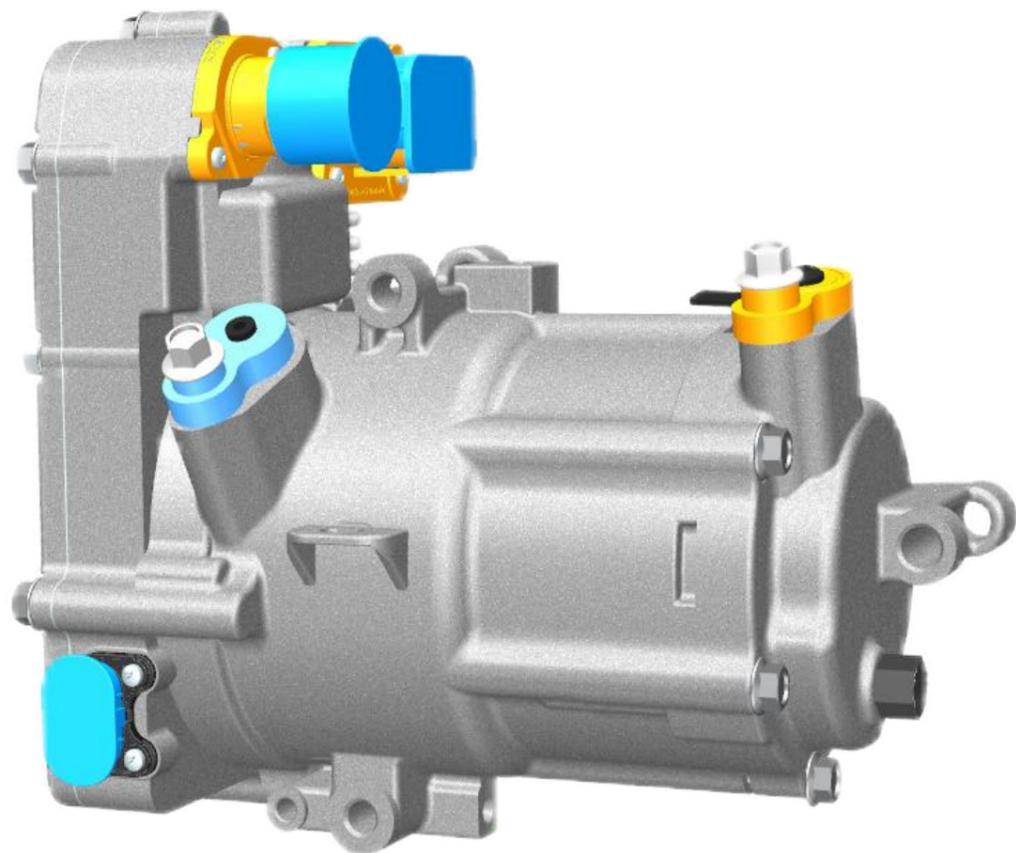
- WPTC集成式, 可轻松帮助整车降本, 宽运行边界, 提供高可靠性的同时兼顾性价比。
- 高效稳定, 提高电池热管理效率。
- 平台化多适应性, 扩展能力强。

### Customer Benefits:

- The WPTC integrated type can easily help reduce the overall vehicle cost. With a wide operating boundary, it takes into account both cost-effectiveness while providing high reliability.
- Highly efficient and stable, improving the efficiency of battery thermal management.
- It features platform-based multi-adaptability and has strong expansion capabilities.

# 大众B SUV EREV 6S

## VW B SUV EREV 6S



关键参数 Key Parameter	参数详情 Parameter Details
排量 Displacement	34cc
电压范围 Voltage Range	250-890V
转速范围 Speed Range	800~9000rpm
通讯协议 Communication Protocol	CAN
防护等级 Protection Level	IP67&IP6K9K
重量 Weight	≤6.5kg
工作温度 Operating Temperature	-25-125°C
能效比 Energy Efficiency Ratio	2.4
噪音 Noise	76dB@8000rpm

### 应用场景:

- 驾驶舱热管理
- 电池、驱动系统热管理
- 高运行边界
- PTC多合一控制

### Application Areas:

- Cockpit thermal management
- Thermal management of battery and drive system
- High operating boundary
- PTC multi-in-one control

### 客户获益:

- PTC多合一控制器，可轻松帮助整车降本，宽运行边界，提供高可靠性的同时兼顾性价比。
- 高效稳定，提高电池热管理效率。
- 轻量化，小尺寸，多控制能力。

### Customer Benefits:

- The PTC multi-in-one controller can easily help reduce the overall vehicle cost. With a wide operating boundary, it takes into account both cost-effectiveness while providing high reliability.
- Highly efficient and stable, improving the efficiency of battery thermal management.
- Lightweight, small in size, and has multiple control capabilities.