

# Global Electric Vehicle PTC Heaters Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Electric Vehicle PTC Heaters market size is expected to reach \$ 6334 million by 2032, rising at a market growth of 14.0% CAGR during the forecast period (2026-2032).

Electric Vehicle PTC Heaters are electric heating devices made from materials with a positive temperature coefficient (PTC). They are primarily used in cabin heating, battery temperature control, and thermal management systems for new energy vehicles such as battery electric vehicles (BEVs) and plug-in hybrid electric vehicles (PHEVs). In new energy vehicles where engine waste heat is scarce, PTC electric heaters rapidly generate heat through resistance heating elements. This heat is then used to improve passenger comfort, defrost and defog, and maintain battery efficiency in low-temperature environments. PTC materials exhibit an automatic increase in resistance with rising temperature, enabling self-limiting temperature control and safe operation. This makes it an important and widely adopted electric heating solution in electric vehicle thermal management systems. In 2025, the global production of Electric Vehicle PTC Heaters was approximately 21.83 million units, with a unit price of approximately US\$42.25-146.38 and a gross profit margin of approximately 21.16%. HGTECH has an annual production capacity exceeding 11 million units.

With the continued surge in global electric vehicle sales, the PTC electric heater market for new energy vehicles has ushered in unprecedented development opportunities. In pure electric and plug-in hybrid vehicles, PTC heaters have become a key component ensuring passenger comfort and battery thermal management. As the demand for rapid heating, defrosting, and battery preheating grows in cold-weather markets, the market penetration rate of PTC heaters continues to increase, especially in high-altitude and cold regions such as North America, Europe, and Northeast Asia. Simultaneously,

government policy support for new energy vehicles, tightening emission regulations, and consumer preference for energy-efficient and environmentally friendly vehicles are all driving the rapid expansion of the PTC heater market. Domestic and international manufacturers are increasing their R&D investment, improving component performance and system integration capabilities to meet the requirements for higher energy efficiency and faster thermal response.

The thermal management technology for new energy vehicles is also constantly advancing. With its advantages of fast start-up, precise temperature control, and compact structure, PTC heaters can be integrated with heat pumps, HVAC systems, and other systems to provide vehicles with more efficient all-season thermal management solutions. The market demand for higher-power, lower-energy-consumption products has further driven the upgrading and innovation of the industrial chain, promoted the development of technical standards and product modularization, and made PTC electric heaters play a more central role in future thermal management systems.

Currently, the PTC electric heater market for new energy vehicles still faces some challenges. First, the integration of high-end models with high-voltage electrical systems places higher demands on product safety, durability, and EMC (electromagnetic compatibility), requiring suppliers to invest significant R&D resources to meet stricter standards. Furthermore, due to the diversification of overall thermal management technologies in electric vehicles, including the application of heat pump systems and the widespread adoption of hybrid heating strategies, PTC heaters face competition from alternative solutions. Regarding pricing, with the growth of vehicle segmentation and low-cost models, balancing product performance and cost has become a focus for both suppliers and consumers.

At the supply chain level, fluctuations in raw material prices in different regions, global logistical pressures, and tight supply of key components such as chips may bring supply risks and volatility. Companies must strengthen their supply chain resilience and risk management capabilities to cope with the uncertainties of the global manufacturing environment and ensure stable product delivery and quality.

On the downstream demand side, with the continuous increase in the penetration rate of new energy vehicles, the application of PTC electric heaters in different market segments such as passenger cars, light commercial vehicles, buses, and special vehicles is gradually expanding. Especially in cold climates, consumers' demands for rapid heating and comfortable experiences are driving the adoption rate of high-power,

high-response heaters. Commercial vehicles such as electric buses and logistics vehicles are placing higher standards on the reliability and continuous operation of thermal management systems, further boosting the demand for PTC heater product upgrades.

In the future, with the increasing complexity of on-board thermal management systems and the maturity of intelligent control technologies, PTC heaters will be deeply integrated with heat pumps, thermal management chips, and intelligent temperature control systems to achieve higher energy efficiency and a better user experience. Market demand for thermal management solutions driven by segmented applications, modular products, and intelligent connectivity will continue to grow, providing new growth opportunities for industry participants.

This report studies the global Electric Vehicle PTC Heaters production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Electric Vehicle PTC Heaters and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Electric Vehicle PTC Heaters that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Electric Vehicle PTC Heaters total production and demand, 2021-2032, (K Units)

Global Electric Vehicle PTC Heaters total production value, 2021-2032, (USD Million)

Global Electric Vehicle PTC Heaters production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Electric Vehicle PTC Heaters consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Electric Vehicle PTC Heaters domestic production, consumption, key domestic manufacturers and share

Global Electric Vehicle PTC Heaters production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Electric Vehicle PTC Heaters production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Electric Vehicle PTC Heaters production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Electric Vehicle PTC Heaters market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Eberspacher, Webasto, Vvkb Heaters, Warmda, BorgWarner, DBK Group, Mahle, DEFA AS, Autoterm LLC, Calix, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Electric Vehicle PTC Heaters market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Electric Vehicle PTC Heaters Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Electric Vehicle PTC Heaters Market, Segmentation by Type:

Air-heated PTC

PTC Coolant Heater

### Global Electric Vehicle PTC Heaters Market, Segmentation by Power:

Low Power (6kW)

### Global Electric Vehicle PTC Heaters Market, Segmentation by Voltage:

High-voltage PTC Heater

Low-voltage PTC Heater

### Global Electric Vehicle PTC Heaters Market, Segmentation by Use:

Passenger Cabin Air Conditioning and Heating

Battery Thermal Management System

Steering Wheel and Seats

Glass Defrosting

### Global Electric Vehicle PTC Heaters Market, Segmentation by Application:

Normal EV/HEV/PHEV

Midrange EV/HEV/PHEV

High-End EV/HEV/PHEV

**Companies Profiled:**

Eberspacher

Webasto

Vvkb Heaters

Warmda

BorgWarner

DBK Group

Mahle

DEFA AS

Autoterm LLC

Calix

Woory Corporation

KLC Corporation

Valeo

Zhenjiang Dongfang Electric Heating Technology Co., Ltd.

Suzhou Xinye Electronics Co., Ltd.

HGTECH

Shanghai Xinpa Electronic Technology Co., Ltd.

KUS Technology Corporation

New Nanfeng Group

**Key Questions Answered:**

1. How big is the global Electric Vehicle ?PTC ?Heaters market?
2. What is the demand of the global Electric Vehicle ?PTC ?Heaters market?
3. What is the year over year growth of the global Electric Vehicle ?PTC ?Heaters market?
4. What is the production and production value of the global Electric Vehicle ?PTC ?Heaters market?
5. Who are the key producers in the global Electric Vehicle ?PTC ?Heaters market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Electric Vehicle ?PTC ?Heaters Introduction
- 1.2 World Electric Vehicle ?PTC ?Heaters Supply & Forecast
  - 1.2.1 World Electric Vehicle ?PTC ?Heaters Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Electric Vehicle ?PTC ?Heaters Production (2021-2032)
  - 1.2.3 World Electric Vehicle ?PTC ?Heaters Pricing Trends (2021-2032)
- 1.3 World Electric Vehicle ?PTC ?Heaters Production by Region (Based on Production Site)
  - 1.3.1 World Electric Vehicle ?PTC ?Heaters Production Value by Region (2021-2032)
  - 1.3.2 World Electric Vehicle ?PTC ?Heaters Production by Region (2021-2032)
  - 1.3.3 World Electric Vehicle ?PTC ?Heaters Average Price by Region (2021-2032)
  - 1.3.4 North America Electric Vehicle ?PTC ?Heaters Production (2021-2032)
  - 1.3.5 Europe Electric Vehicle ?PTC ?Heaters Production (2021-2032)
  - 1.3.6 China Electric Vehicle ?PTC ?Heaters Production (2021-2032)
  - 1.3.7 Japan Electric Vehicle ?PTC ?Heaters Production (2021-2032)
  - 1.3.8 South Korea Electric Vehicle ?PTC ?Heaters Production (2021-2032)
  - 1.3.9 India Electric Vehicle ?PTC ?Heaters Production (2021-2032)
  - 1.3.10 Mexico Electric Vehicle ?PTC ?Heaters Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Electric Vehicle ?PTC ?Heaters Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Electric Vehicle ?PTC ?Heaters Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Electric Vehicle ?PTC ?Heaters Demand (2021-2032)
- 2.2 World Electric Vehicle ?PTC ?Heaters Consumption by Region
  - 2.2.1 World Electric Vehicle ?PTC ?Heaters Consumption by Region (2021-2026)
  - 2.2.2 World Electric Vehicle ?PTC ?Heaters Consumption Forecast by Region (2027-2032)
- 2.3 United States Electric Vehicle ?PTC ?Heaters Consumption (2021-2032)
- 2.4 China Electric Vehicle ?PTC ?Heaters Consumption (2021-2032)
- 2.5 Europe Electric Vehicle ?PTC ?Heaters Consumption (2021-2032)
- 2.6 Japan Electric Vehicle ?PTC ?Heaters Consumption (2021-2032)
- 2.7 South Korea Electric Vehicle ?PTC ?Heaters Consumption (2021-2032)
- 2.8 ASEAN Electric Vehicle ?PTC ?Heaters Consumption (2021-2032)

2.9 India Electric Vehicle ?PTC ?Heaters Consumption (2021-2032)

### **3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS**

3.1 World Electric Vehicle ?PTC ?Heaters Production Value by Manufacturer (2021-2026)

3.2 World Electric Vehicle ?PTC ?Heaters Production by Manufacturer (2021-2026)

3.3 World Electric Vehicle ?PTC ?Heaters Average Price by Manufacturer (2021-2026)

3.4 Electric Vehicle ?PTC ?Heaters Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Electric Vehicle ?PTC ?Heaters Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Electric Vehicle ?PTC ?Heaters in 2025

3.5.3 Global Concentration Ratios (CR8) for Electric Vehicle ?PTC ?Heaters in 2025

3.6 Electric Vehicle ?PTC ?Heaters Market: Overall Company Footprint Analysis

3.6.1 Electric Vehicle ?PTC ?Heaters Market: Region Footprint

3.6.2 Electric Vehicle ?PTC ?Heaters Market: Company Product Type Footprint

3.6.3 Electric Vehicle ?PTC ?Heaters Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

### **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

4.1 United States VS China: Electric Vehicle ?PTC ?Heaters Production Value Comparison

4.1.1 United States VS China: Electric Vehicle ?PTC ?Heaters Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Electric Vehicle ?PTC ?Heaters Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Electric Vehicle ?PTC ?Heaters Production Comparison

4.2.1 United States VS China: Electric Vehicle ?PTC ?Heaters Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Electric Vehicle ?PTC ?Heaters Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Electric Vehicle ?PTC ?Heaters Consumption Comparison

4.3.1 United States VS China: Electric Vehicle ?PTC ?Heaters Consumption

Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Electric Vehicle ?PTC ?Heaters Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Electric Vehicle ?PTC ?Heaters Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Electric Vehicle ?PTC ?Heaters Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Electric Vehicle ?PTC ?Heaters Production Value (2021-2026)

4.4.3 United States Based Manufacturers Electric Vehicle ?PTC ?Heaters Production (2021-2026)

4.5 China Based Electric Vehicle ?PTC ?Heaters Manufacturers and Market Share

4.5.1 China Based Electric Vehicle ?PTC ?Heaters Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Electric Vehicle ?PTC ?Heaters Production Value (2021-2026)

4.5.3 China Based Manufacturers Electric Vehicle ?PTC ?Heaters Production (2021-2026)

4.6 Rest of World Based Electric Vehicle ?PTC ?Heaters Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Electric Vehicle ?PTC ?Heaters Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Electric Vehicle ?PTC ?Heaters Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Electric Vehicle ?PTC ?Heaters Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Electric Vehicle ?PTC ?Heaters Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Air-heated PTC

5.2.2 PTC Coolant Heater

5.3 Market Segment by Type

5.3.1 World Electric Vehicle ?PTC ?Heaters Production by Type (2021-2032)

5.3.2 World Electric Vehicle ?PTC ?Heaters Production Value by Type (2021-2032)

5.3.3 World Electric Vehicle ?PTC ?Heaters Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY POWER**

6.1 World Electric Vehicle ?PTC ?Heaters Market Size Overview by Power: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Power

6.2.1 Low Power (6?kW)

6.3 Market Segment by Power

6.3.1 World Electric Vehicle ?PTC ?Heaters Production by Power (2021-2032)

6.3.2 World Electric Vehicle ?PTC ?Heaters Production Value by Power (2021-2032)

6.3.3 World Electric Vehicle ?PTC ?Heaters Average Price by Power (2021-2032)

## **7 MARKET ANALYSIS BY VOLTAGE**

7.1 World Electric Vehicle ?PTC ?Heaters Market Size Overview by Voltage: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Voltage

7.2.1 High-voltage PTC Heater

7.2.2 Low-voltage PTC Heater

7.3 Market Segment by Voltage

7.3.1 World Electric Vehicle ?PTC ?Heaters Production by Voltage (2021-2032)

7.3.2 World Electric Vehicle ?PTC ?Heaters Production Value by Voltage (2021-2032)

7.3.3 World Electric Vehicle ?PTC ?Heaters Average Price by Voltage (2021-2032)

## **8 MARKET ANALYSIS BY USE**

8.1 World Electric Vehicle ?PTC ?Heaters Market Size Overview by Use: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Use

8.2.1 Passenger Cabin Air Conditioning and Heating

8.2.2 Battery Thermal Management System

8.2.3 Steering Wheel and Seats

8.2.4 Glass Defrosting

8.3 Market Segment by Use

8.3.1 World Electric Vehicle ?PTC ?Heaters Production by Use (2021-2032)

8.3.2 World Electric Vehicle ?PTC ?Heaters Production Value by Use (2021-2032)

8.3.3 World Electric Vehicle ?PTC ?Heaters Average Price by Use (2021-2032)

## **9 MARKET ANALYSIS BY APPLICATION**

9.1 World Electric Vehicle ?PTC ?Heaters Market Size Overview by Application: 2021 VS 2025 VS 2032

9.2 Segment Introduction by Application

9.2.1 Normal EV/HEV/PHEV

9.2.2 Midrange EV/HEV/PHEV

9.2.3 High-End EV/HEV/PHEV

9.3 Market Segment by Application

9.3.1 World Electric Vehicle ?PTC ?Heaters Production by Application (2021-2032)

9.3.2 World Electric Vehicle ?PTC ?Heaters Production Value by Application (2021-2032)

9.3.3 World Electric Vehicle ?PTC ?Heaters Average Price by Application (2021-2032)

## **10 COMPANY PROFILES**

10.1 Eberspacher

10.1.1 Eberspacher Details

10.1.2 Eberspacher Major Business

10.1.3 Eberspacher Electric Vehicle ?PTC ?Heaters Product and Services

10.1.4 Eberspacher Electric Vehicle ?PTC ?Heaters Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.1.5 Eberspacher Recent Developments/Updates

10.1.6 Eberspacher Competitive Strengths & Weaknesses

10.2 Webasto

10.2.1 Webasto Details

10.2.2 Webasto Major Business

10.2.3 Webasto Electric Vehicle ?PTC ?Heaters Product and Services

10.2.4 Webasto Electric Vehicle ?PTC ?Heaters Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.2.5 Webasto Recent Developments/Updates

10.2.6 Webasto Competitive Strengths & Weaknesses

10.3 Vvkb Heaters

10.3.1 Vvkb Heaters Details

10.3.2 Vvkb Heaters Major Business

10.3.3 Vvkb Heaters Electric Vehicle ?PTC ?Heaters Product and Services

10.3.4 Vvkb Heaters Electric Vehicle ?PTC ?Heaters Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.3.5 Vvkb Heaters Recent Developments/Updates

10.3.6 Vvkb Heaters Competitive Strengths & Weaknesses

10.4 Warmda

- 10.4.1 Warmda Details
- 10.4.2 Warmda Major Business
- 10.4.3 Warmda Electric Vehicle ?PTC ?Heaters Product and Services
- 10.4.4 Warmda Electric Vehicle ?PTC ?Heaters Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.4.5 Warmda Recent Developments/Updates
- 10.4.6 Warmda Competitive Strengths & Weaknesses
- 10.5 BorgWarner
  - 10.5.1 BorgWarner Details
  - 10.5.2 BorgWarner Major Business
  - 10.5.3 BorgWarner Electric Vehicle ?PTC ?Heaters Product and Services
  - 10.5.4 BorgWarner Electric Vehicle ?PTC ?Heaters Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 10.5.5 BorgWarner Recent Developments/Updates
  - 10.5.6 BorgWarner Competitive Strengths & Weaknesses
- 10.6 DBK Group
  - 10.6.1 DBK Group Details
  - 10.6.2 DBK Group Major Business
  - 10.6.3 DBK Group Electric Vehicle ?PTC ?Heaters Product and Services
  - 10.6.4 DBK Group Electric Vehicle ?PTC ?Heaters Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 10.6.5 DBK Group Recent Developments/Updates
  - 10.6.6 DBK Group Competitive Strengths & Weaknesses
- 10.7 Mahle
  - 10.7.1 Mahle Details
  - 10.7.2 Mahle Major Business
  - 10.7.3 Mahle Electric Vehicle ?PTC ?Heaters Product and Services
  - 10.7.4 Mahle Electric Vehicle ?PTC ?Heaters Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 10.7.5 Mahle Recent Developments/Updates
  - 10.7.6 Mahle Competitive Strengths & Weaknesses
- 10.8 DEFA AS
  - 10.8.1 DEFA AS Details
  - 10.8.2 DEFA AS Major Business
  - 10.8.3 DEFA AS Electric Vehicle ?PTC ?Heaters Product and Services
  - 10.8.4 DEFA AS Electric Vehicle ?PTC ?Heaters Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 10.8.5 DEFA AS Recent Developments/Updates
  - 10.8.6 DEFA AS Competitive Strengths & Weaknesses

## 10.9 Autoterm LLC

10.9.1 Autoterm LLC Details

10.9.2 Autoterm LLC Major Business

10.9.3 Autoterm LLC Electric Vehicle ?PTC ?Heaters Product and Services

10.9.4 Autoterm LLC Electric Vehicle ?PTC ?Heaters Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.9.5 Autoterm LLC Recent Developments/Updates

10.9.6 Autoterm LLC Competitive Strengths & Weaknesses

## 10.10 Calix

10.10.1 Calix Details

10.10.2 Calix Major Business

10.10.3 Calix Electric Vehicle ?PTC ?Heaters Product and Services

10.10.4 Calix Electric Vehicle ?PTC ?Heaters Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.10.5 Calix Recent Developments/Updates

10.10.6 Calix Competitive Strengths & Weaknesses

## 10.11 Woory Corporation

10.11.1 Woory Corporation Details

10.11.2 Woory Corporation Major Business

10.11.3 Woory Corporation Electric Vehicle ?PTC ?Heaters Product and Services

10.11.4 Woory Corporation Electric Vehicle ?PTC ?Heaters Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.11.5 Woory Corporation Recent Developments/Updates

10.11.6 Woory Corporation Competitive Strengths & Weaknesses

## 10.12 KLC Corporation

10.12.1 KLC Corporation Details

10.12.2 KLC Corporation Major Business

10.12.3 KLC Corporation Electric Vehicle ?PTC ?Heaters Product and Services

10.12.4 KLC Corporation Electric Vehicle ?PTC ?Heaters Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.12.5 KLC Corporation Recent Developments/Updates

10.12.6 KLC Corporation Competitive Strengths & Weaknesses

## 10.13 Valeo

10.13.1 Valeo Details

10.13.2 Valeo Major Business

10.13.3 Valeo Electric Vehicle ?PTC ?Heaters Product and Services

10.13.4 Valeo Electric Vehicle ?PTC ?Heaters Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.13.5 Valeo Recent Developments/Updates

- 10.13.6 Valeo Competitive Strengths & Weaknesses
- 10.14 Zhenjiang Dongfang Electric Heating Technology Co., Ltd.
  - 10.14.1 Zhenjiang Dongfang Electric Heating Technology Co., Ltd. Details
  - 10.14.2 Zhenjiang Dongfang Electric Heating Technology Co., Ltd. Major Business
  - 10.14.3 Zhenjiang Dongfang Electric Heating Technology Co., Ltd. Electric Vehicle ?PTC ?Heaters Product and Services
  - 10.14.4 Zhenjiang Dongfang Electric Heating Technology Co., Ltd. Electric Vehicle ?PTC ?Heaters Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 10.14.5 Zhenjiang Dongfang Electric Heating Technology Co., Ltd. Recent Developments/Updates
  - 10.14.6 Zhenjiang Dongfang Electric Heating Technology Co., Ltd. Competitive Strengths & Weaknesses
- 10.15 Suzhou Xinye Electronics Co., Ltd.
  - 10.15.1 Suzhou Xinye Electronics Co., Ltd. Details
  - 10.15.2 Suzhou Xinye Electronics Co., Ltd. Major Business
  - 10.15.3 Suzhou Xinye Electronics Co., Ltd. Electric Vehicle ?PTC ?Heaters Product and Services
  - 10.15.4 Suzhou Xinye Electronics Co., Ltd. Electric Vehicle ?PTC ?Heaters Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 10.15.5 Suzhou Xinye Electronics Co., Ltd. Recent Developments/Updates
  - 10.15.6 Suzhou Xinye Electronics Co., Ltd. Competitive Strengths & Weaknesses
- 10.16 HGTECH
  - 10.16.1 HGTECH Details
  - 10.16.2 HGTECH Major Business
  - 10.16.3 HGTECH Electric Vehicle ?PTC ?Heaters Product and Services
  - 10.16.4 HGTECH Electric Vehicle ?PTC ?Heaters Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 10.16.5 HGTECH Recent Developments/Updates
  - 10.16.6 HGTECH Competitive Strengths & Weaknesses
- 10.17 Shanghai Xinpa Electronic Technology Co., Ltd.
  - 10.17.1 Shanghai Xinpa Electronic Technology Co., Ltd. Details
  - 10.17.2 Shanghai Xinpa Electronic Technology Co., Ltd. Major Business
  - 10.17.3 Shanghai Xinpa Electronic Technology Co., Ltd. Electric Vehicle ?PTC ?Heaters Product and Services
  - 10.17.4 Shanghai Xinpa Electronic Technology Co., Ltd. Electric Vehicle ?PTC ?Heaters Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 10.17.5 Shanghai Xinpa Electronic Technology Co., Ltd. Recent Developments/Updates
  - 10.17.6 Shanghai Xinpa Electronic Technology Co., Ltd. Competitive Strengths &

## Weaknesses

### 10.18 KUS Technology Corporation

10.18.1 KUS Technology Corporation Details

10.18.2 KUS Technology Corporation Major Business

10.18.3 KUS Technology Corporation Electric Vehicle ?PTC ?Heaters Product and Services

10.18.4 KUS Technology Corporation Electric Vehicle ?PTC ?Heaters Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.18.5 KUS Technology Corporation Recent Developments/Updates

10.18.6 KUS Technology Corporation Competitive Strengths & Weaknesses

### 10.19 New Nanfeng Group

10.19.1 New Nanfeng Group Details

10.19.2 New Nanfeng Group Major Business

10.19.3 New Nanfeng Group Electric Vehicle ?PTC ?Heaters Product and Services

10.19.4 New Nanfeng Group Electric Vehicle ?PTC ?Heaters Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.19.5 New Nanfeng Group Recent Developments/Updates

10.19.6 New Nanfeng Group Competitive Strengths & Weaknesses

## 11 INDUSTRY CHAIN ANALYSIS

11.1 Electric Vehicle ?PTC ?Heaters Industry Chain

11.2 Electric Vehicle ?PTC ?Heaters Upstream Analysis

11.2.1 Electric Vehicle ?PTC ?Heaters Core Raw Materials

11.2.2 Main Manufacturers of Electric Vehicle ?PTC ?Heaters Core Raw Materials

11.3 Midstream Analysis

11.4 Downstream Analysis

11.5 Electric Vehicle ?PTC ?Heaters Production Mode

11.6 Electric Vehicle ?PTC ?Heaters Procurement Model

11.7 Electric Vehicle ?PTC ?Heaters Industry Sales Model and Sales Channels

11.7.1 Electric Vehicle ?PTC ?Heaters Sales Model

11.7.2 Electric Vehicle ?PTC ?Heaters Typical Distributors

## 12 RESEARCH FINDINGS AND CONCLUSION

## 13 APPENDIX

13.1 Methodology

13.2 Research Process and Data Source

### 13.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Electric Vehicle ?PTC ?Heaters Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Electric Vehicle ?PTC ?Heaters Production Value by Region (2021-2026) & (USD Million)

Table 3. World Electric Vehicle ?PTC ?Heaters Production Value by Region (2027-2032) & (USD Million)

Table 4. World Electric Vehicle ?PTC ?Heaters Production Value Market Share by Region (2021-2026)

Table 5. World Electric Vehicle ?PTC ?Heaters Production Value Market Share by Region (2027-2032)

Table 6. World Electric Vehicle ?PTC ?Heaters Production by Region (2021-2026) & (K Units)

Table 7. World Electric Vehicle ?PTC ?Heaters Production by Region (2027-2032) & (K Units)

Table 8. World Electric Vehicle ?PTC ?Heaters Production Market Share by Region (2021-2026)

Table 9. World Electric Vehicle ?PTC ?Heaters Production Market Share by Region (2027-2032)

Table 10. World Electric Vehicle ?PTC ?Heaters Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Electric Vehicle ?PTC ?Heaters Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Electric Vehicle ?PTC ?Heaters Major Market Trends

Table 13. World Electric Vehicle ?PTC ?Heaters Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Electric Vehicle ?PTC ?Heaters Consumption by Region (2021-2026) & (K Units)

Table 15. World Electric Vehicle ?PTC ?Heaters Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Electric Vehicle ?PTC ?Heaters Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Electric Vehicle ?PTC ?Heaters Producers in 2025

Table 18. World Electric Vehicle ?PTC ?Heaters Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Electric Vehicle ?PTC ?Heaters Producers in 2025

Table 20. World Electric Vehicle ?PTC ?Heaters Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Electric Vehicle ?PTC ?Heaters Company Evaluation Quadrant

Table 22. World Electric Vehicle ?PTC ?Heaters Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Electric Vehicle ?PTC ?Heaters Production Site of Key Manufacturer

Table 24. Electric Vehicle ?PTC ?Heaters Market: Company Product Type Footprint

Table 25. Electric Vehicle ?PTC ?Heaters Market: Company Product Application Footprint

Table 26. Electric Vehicle ?PTC ?Heaters Competitive Factors

Table 27. Electric Vehicle ?PTC ?Heaters New Entrant and Capacity Expansion Plans

Table 28. Electric Vehicle ?PTC ?Heaters Mergers & Acquisitions Activity

Table 29. United States VS China Electric Vehicle ?PTC ?Heaters Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Electric Vehicle ?PTC ?Heaters Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Electric Vehicle ?PTC ?Heaters Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Electric Vehicle ?PTC ?Heaters Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Electric Vehicle ?PTC ?Heaters Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Electric Vehicle ?PTC ?Heaters Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Electric Vehicle ?PTC ?Heaters Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Electric Vehicle ?PTC ?Heaters Production Market Share (2021-2026)

Table 37. China Based Electric Vehicle ?PTC ?Heaters Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Electric Vehicle ?PTC ?Heaters Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Electric Vehicle ?PTC ?Heaters Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Electric Vehicle ?PTC ?Heaters Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Electric Vehicle ?PTC ?Heaters Production Market Share (2021-2026)

Table 42. Rest of World Based Electric Vehicle ?PTC ?Heaters Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Electric Vehicle ?PTC ?Heaters Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Electric Vehicle ?PTC ?Heaters Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Electric Vehicle ?PTC ?Heaters Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Electric Vehicle ?PTC ?Heaters Production Market Share (2021-2026)

Table 47. World Electric Vehicle ?PTC ?Heaters Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Electric Vehicle ?PTC ?Heaters Production by Type (2021-2026) & (K Units)

Table 49. World Electric Vehicle ?PTC ?Heaters Production by Type (2027-2032) & (K Units)

Table 50. World Electric Vehicle ?PTC ?Heaters Production Value by Type (2021-2026) & (USD Million)

Table 51. World Electric Vehicle ?PTC ?Heaters Production Value by Type (2027-2032) & (USD Million)

Table 52. World Electric Vehicle ?PTC ?Heaters Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Electric Vehicle ?PTC ?Heaters Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Electric Vehicle ?PTC ?Heaters Production Value by Power, (USD Million), 2021 & 2025 & 2032

Table 55. World Electric Vehicle ?PTC ?Heaters Production by Power (2021-2026) & (K Units)

Table 56. World Electric Vehicle ?PTC ?Heaters Production by Power (2027-2032) & (K Units)

Table 57. World Electric Vehicle ?PTC ?Heaters Production Value by Power (2021-2026) & (USD Million)

Table 58. World Electric Vehicle ?PTC ?Heaters Production Value by Power (2027-2032) & (USD Million)

Table 59. World Electric Vehicle ?PTC ?Heaters Average Price by Power (2021-2026) & (US\$/Unit)

Table 60. World Electric Vehicle ?PTC ?Heaters Average Price by Power (2027-2032)

& (US\$/Unit)

Table 61. World Electric Vehicle ?PTC ?Heaters Production Value by Voltage, (USD Million), 2021 & 2025 & 2032

Table 62. World Electric Vehicle ?PTC ?Heaters Production by Voltage (2021-2026) & (K Units)

Table 63. World Electric Vehicle ?PTC ?Heaters Production by Voltage (2027-2032) & (K Units)

Table 64. World Electric Vehicle ?PTC ?Heaters Production Value by Voltage (2021-2026) & (USD Million)

Table 65. World Electric Vehicle ?PTC ?Heaters Production Value by Voltage (2027-2032) & (USD Million)

Table 66. World Electric Vehicle ?PTC ?Heaters Average Price by Voltage (2021-2026) & (US\$/Unit)

Table 67. World Electric Vehicle ?PTC ?Heaters Average Price by Voltage (2027-2032) & (US\$/Unit)

Table 68. World Electric Vehicle ?PTC ?Heaters Production Value by Use, (USD Million), 2021 & 2025 & 2032

Table 69. World Electric Vehicle ?PTC ?Heaters Production by Use (2021-2026) & (K Units)

Table 70. World Electric Vehicle ?PTC ?Heaters Production by Use (2027-2032) & (K Units)

Table 71. World Electric Vehicle ?PTC ?Heaters Production Value by Use (2021-2026) & (USD Million)

Table 72. World Electric Vehicle ?PTC ?Heaters Production Value by Use (2027-2032) & (USD Million)

Table 73. World Electric Vehicle ?PTC ?Heaters Average Price by Use (2021-2026) & (US\$/Unit)

Table 74. World Electric Vehicle ?PTC ?Heaters Average Price by Use (2027-2032) & (US\$/Unit)

Table 75. World Electric Vehicle ?PTC ?Heaters Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 76. World Electric Vehicle ?PTC ?Heaters Production by Application (2021-2026) & (K Units)

Table 77. World Electric Vehicle ?PTC ?Heaters Production by Application (2027-2032) & (K Units)

Table 78. World Electric Vehicle ?PTC ?Heaters Production Value by Application (2021-2026) & (USD Million)

Table 79. World Electric Vehicle ?PTC ?Heaters Production Value by Application (2027-2032) & (USD Million)

- Table 80. World Electric Vehicle ?PTC ?Heaters Average Price by Application (2021-2026) & (US\$/Unit)
- Table 81. World Electric Vehicle ?PTC ?Heaters Average Price by Application (2027-2032) & (US\$/Unit)
- Table 82. Eberspacher Basic Information, Manufacturing Base and Competitors
- Table 83. Eberspacher Major Business
- Table 84. Eberspacher Electric Vehicle ?PTC ?Heaters Product and Services
- Table 85. Eberspacher Electric Vehicle ?PTC ?Heaters Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 86. Eberspacher Recent Developments/Updates
- Table 87. Eberspacher Competitive Strengths & Weaknesses
- Table 88. Webasto Basic Information, Manufacturing Base and Competitors
- Table 89. Webasto Major Business
- Table 90. Webasto Electric Vehicle ?PTC ?Heaters Product and Services
- Table 91. Webasto Electric Vehicle ?PTC ?Heaters Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 92. Webasto Recent Developments/Updates
- Table 93. Webasto Competitive Strengths & Weaknesses
- Table 94. Vvkb Heaters Basic Information, Manufacturing Base and Competitors
- Table 95. Vvkb Heaters Major Business
- Table 96. Vvkb Heaters Electric Vehicle ?PTC ?Heaters Product and Services
- Table 97. Vvkb Heaters Electric Vehicle ?PTC ?Heaters Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 98. Vvkb Heaters Recent Developments/Updates
- Table 99. Vvkb Heaters Competitive Strengths & Weaknesses
- Table 100. Warmda Basic Information, Manufacturing Base and Competitors
- Table 101. Warmda Major Business
- Table 102. Warmda Electric Vehicle ?PTC ?Heaters Product and Services
- Table 103. Warmda Electric Vehicle ?PTC ?Heaters Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 104. Warmda Recent Developments/Updates
- Table 105. Warmda Competitive Strengths & Weaknesses
- Table 106. BorgWarner Basic Information, Manufacturing Base and Competitors
- Table 107. BorgWarner Major Business
- Table 108. BorgWarner Electric Vehicle ?PTC ?Heaters Product and Services

Table 109. BorgWarner Electric Vehicle ?PTC ?Heaters Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 110. BorgWarner Recent Developments/Updates

Table 111. BorgWarner Competitive Strengths & Weaknesses

Table 112. DBK Group Basic Information, Manufacturing Base and Competitors

Table 113. DBK Group Major Business

Table 114. DBK Group Electric Vehicle ?PTC ?Heaters Product and Services

Table 115. DBK Group Electric Vehicle ?PTC ?Heaters Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 116. DBK Group Recent Developments/Updates

Table 117. DBK Group Competitive Strengths & Weaknesses

Table 118. Mahle Basic Information, Manufacturing Base and Competitors

Table 119. Mahle Major Business

Table 120. Mahle Electric Vehicle ?PTC ?Heaters Product and Services

Table 121. Mahle Electric Vehicle ?PTC ?Heaters Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 122. Mahle Recent Developments/Updates

Table 123. Mahle Competitive Strengths & Weaknesses

Table 124. DEFA AS Basic Information, Manufacturing Base and Competitors

Table 125. DEFA AS Major Business

Table 126. DEFA AS Electric Vehicle ?PTC ?Heaters Product and Services

Table 127. DEFA AS Electric Vehicle ?PTC ?Heaters Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 128. DEFA AS Recent Developments/Updates

Table 129. DEFA AS Competitive Strengths & Weaknesses

Table 130. Autoterm LLC Basic Information, Manufacturing Base and Competitors

Table 131. Autoterm LLC Major Business

Table 132. Autoterm LLC Electric Vehicle ?PTC ?Heaters Product and Services

Table 133. Autoterm LLC Electric Vehicle ?PTC ?Heaters Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 134. Autoterm LLC Recent Developments/Updates

Table 135. Autoterm LLC Competitive Strengths & Weaknesses

Table 136. Calix Basic Information, Manufacturing Base and Competitors

Table 137. Calix Major Business

- Table 138. Calix Electric Vehicle ?PTC ?Heaters Product and Services
- Table 139. Calix Electric Vehicle ?PTC ?Heaters Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 140. Calix Recent Developments/Updates
- Table 141. Calix Competitive Strengths & Weaknesses
- Table 142. Woory Corporation Basic Information, Manufacturing Base and Competitors
- Table 143. Woory Corporation Major Business
- Table 144. Woory Corporation Electric Vehicle ?PTC ?Heaters Product and Services
- Table 145. Woory Corporation Electric Vehicle ?PTC ?Heaters Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 146. Woory Corporation Recent Developments/Updates
- Table 147. Woory Corporation Competitive Strengths & Weaknesses
- Table 148. KLC Corporation Basic Information, Manufacturing Base and Competitors
- Table 149. KLC Corporation Major Business
- Table 150. KLC Corporation Electric Vehicle ?PTC ?Heaters Product and Services
- Table 151. KLC Corporation Electric Vehicle ?PTC ?Heaters Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 152. KLC Corporation Recent Developments/Updates
- Table 153. KLC Corporation Competitive Strengths & Weaknesses
- Table 154. Valeo Basic Information, Manufacturing Base and Competitors
- Table 155. Valeo Major Business
- Table 156. Valeo Electric Vehicle ?PTC ?Heaters Product and Services
- Table 157. Valeo Electric Vehicle ?PTC ?Heaters Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 158. Valeo Recent Developments/Updates
- Table 159. Valeo Competitive Strengths & Weaknesses
- Table 160. Zhenjiang Dongfang Electric Heating Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
- Table 161. Zhenjiang Dongfang Electric Heating Technology Co., Ltd. Major Business
- Table 162. Zhenjiang Dongfang Electric Heating Technology Co., Ltd. Electric Vehicle ?PTC ?Heaters Product and Services
- Table 163. Zhenjiang Dongfang Electric Heating Technology Co., Ltd. Electric Vehicle ?PTC ?Heaters Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 164. Zhenjiang Dongfang Electric Heating Technology Co., Ltd. Recent Developments/Updates

Table 165. Zhenjiang Dongfang Electric Heating Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 166. Suzhou Xinye Electronics Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 167. Suzhou Xinye Electronics Co., Ltd. Major Business

Table 168. Suzhou Xinye Electronics Co., Ltd. Electric Vehicle ?PTC ?Heaters Product and Services

Table 169. Suzhou Xinye Electronics Co., Ltd. Electric Vehicle ?PTC ?Heaters Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 170. Suzhou Xinye Electronics Co., Ltd. Recent Developments/Updates

Table 171. Suzhou Xinye Electronics Co., Ltd. Competitive Strengths & Weaknesses

Table 172. HGTECH Basic Information, Manufacturing Base and Competitors

Table 173. HGTECH Major Business

Table 174. HGTECH Electric Vehicle ?PTC ?Heaters Product and Services

Table 175. HGTECH Electric Vehicle ?PTC ?Heaters Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 176. HGTECH Recent Developments/Updates

Table 177. HGTECH Competitive Strengths & Weaknesses

Table 178. Shanghai Xinpa Electronic Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 179. Shanghai Xinpa Electronic Technology Co., Ltd. Major Business

Table 180. Shanghai Xinpa Electronic Technology Co., Ltd. Electric Vehicle ?PTC ?Heaters Product and Services

Table 181. Shanghai Xinpa Electronic Technology Co., Ltd. Electric Vehicle ?PTC ?Heaters Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 182. Shanghai Xinpa Electronic Technology Co., Ltd. Recent Developments/Updates

Table 183. Shanghai Xinpa Electronic Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 184. KUS Technology Corporation Basic Information, Manufacturing Base and Competitors

Table 185. KUS Technology Corporation Major Business

Table 186. KUS Technology Corporation Electric Vehicle ?PTC ?Heaters Product and Services

Table 187. KUS Technology Corporation Electric Vehicle ?PTC ?Heaters Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market

Share (2021-2026)

Table 188. KUS Technology Corporation Recent Developments/Updates

Table 189. KUS Technology Corporation Competitive Strengths & Weaknesses

Table 190. New Nanfeng Group Basic Information, Manufacturing Base and Competitors

Table 191. New Nanfeng Group Major Business

Table 192. New Nanfeng Group Electric Vehicle ?PTC ?Heaters Product and Services

Table 193. New Nanfeng Group Electric Vehicle ?PTC ?Heaters Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 194. New Nanfeng Group Recent Developments/Updates

Table 195. New Nanfeng Group Competitive Strengths & Weaknesses

Table 196. Global Key Players of Electric Vehicle ?PTC ?Heaters Upstream (Raw Materials)

Table 197. Global Electric Vehicle ?PTC ?Heaters Typical Customers

Table 198. Electric Vehicle ?PTC ?Heaters Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Electric Vehicle ?PTC ?Heaters Picture

Figure 2. World Electric Vehicle ?PTC ?Heaters Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Electric Vehicle ?PTC ?Heaters Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Electric Vehicle ?PTC ?Heaters Production (2021-2032) & (K Units)

Figure 5. World Electric Vehicle ?PTC ?Heaters Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Electric Vehicle ?PTC ?Heaters Production Value Market Share by Region (2021-2032)

Figure 7. World Electric Vehicle ?PTC ?Heaters Production Market Share by Region (2021-2032)

Figure 8. North America Electric Vehicle ?PTC ?Heaters Production (2021-2032) & (K Units)

Figure 9. Europe Electric Vehicle ?PTC ?Heaters Production (2021-2032) & (K Units)

Figure 10. China Electric Vehicle ?PTC ?Heaters Production (2021-2032) & (K Units)

Figure 11. Japan Electric Vehicle ?PTC ?Heaters Production (2021-2032) & (K Units)

Figure 12. South Korea Electric Vehicle ?PTC ?Heaters Production (2021-2032) & (K Units)

Figure 13. India Electric Vehicle ?PTC ?Heaters Production (2021-2032) & (K Units)

Figure 14. Mexico Electric Vehicle ?PTC ?Heaters Production (2021-2032) & (K Units)

Figure 15. Electric Vehicle ?PTC ?Heaters Market Drivers

Figure 16. Factors Affecting Demand

Figure 17. World Electric Vehicle ?PTC ?Heaters Consumption (2021-2032) & (K Units)

Figure 18. World Electric Vehicle ?PTC ?Heaters Consumption Market Share by Region (2021-2032)

Figure 19. United States Electric Vehicle ?PTC ?Heaters Consumption (2021-2032) & (K Units)

Figure 20. China Electric Vehicle ?PTC ?Heaters Consumption (2021-2032) & (K Units)

Figure 21. Europe Electric Vehicle ?PTC ?Heaters Consumption (2021-2032) & (K Units)

Figure 22. Japan Electric Vehicle ?PTC ?Heaters Consumption (2021-2032) & (K Units)

Figure 23. South Korea Electric Vehicle ?PTC ?Heaters Consumption (2021-2032) & (K Units)

Figure 24. ASEAN Electric Vehicle ?PTC ?Heaters Consumption (2021-2032) & (K

Units)

Figure 25. India Electric Vehicle PTC Heaters Consumption (2021-2032) & (K Units)

Figure 26. Producer Shipments of Electric Vehicle PTC Heaters by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 27. Global Four-firm Concentration Ratios (CR4) for Electric Vehicle PTC Heaters Markets in 2025

Figure 28. Global Four-firm Concentration Ratios (CR8) for Electric Vehicle PTC Heaters Markets in 2025

Figure 29. United States VS China: Electric Vehicle PTC Heaters Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Electric Vehicle PTC Heaters Production Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States VS China: Electric Vehicle PTC Heaters Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 32. United States Based Manufacturers Electric Vehicle PTC Heaters Production Market Share 2025

Figure 33. China Based Manufacturers Electric Vehicle PTC Heaters Production Market Share 2025

Figure 34. Rest of World Based Manufacturers Electric Vehicle PTC Heaters Production Market Share 2025

Figure 35. World Electric Vehicle PTC Heaters Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 36. World Electric Vehicle PTC Heaters Production Value Market Share by Type in 2025

Figure 37. Air-heated PTC

Figure 38. PTC Coolant Heater

Figure 39. World Electric Vehicle PTC Heaters Production Market Share by Type (2021-2032)

Figure 40. World Electric Vehicle PTC Heaters Production Value Market Share by Type (2021-2032)

Figure 41. World Electric Vehicle PTC Heaters Average Price by Type (2021-2032) & (US\$/Unit)

Figure 42. World Electric Vehicle PTC Heaters Production Value by Power, (USD Million), 2021 & 2025 & 2032

Figure 43. World Electric Vehicle PTC Heaters Production Value Market Share by Power in 2025

Figure 44. Low Power (6?kW)

Figure 47. World Electric Vehicle PTC Heaters Production Market Share by Power (2021-2032)

Figure 48. World Electric Vehicle PTC Heaters Production Value Market Share by Power (2021-2032)

Figure 49. World Electric Vehicle PTC Heaters Average Price by Power (2021-2032) & (US\$/Unit)

Figure 50. World Electric Vehicle PTC Heaters Production Value by Voltage, (USD Million), 2021 & 2025 & 2032

Figure 51. World Electric Vehicle PTC Heaters Production Value Market Share by Voltage in 2025

Figure 52. High-voltage PTC Heater

Figure 53. Low-voltage PTC Heater

Figure 54. World Electric Vehicle PTC Heaters Production Market Share by Voltage (2021-2032)

Figure 55. World Electric Vehicle PTC Heaters Production Value Market Share by Voltage (2021-2032)

Figure 56. World Electric Vehicle PTC Heaters Average Price by Voltage (2021-2032) & (US\$/Unit)

Figure 57. World Electric Vehicle PTC Heaters Production Value by Use, (USD Million), 2021 & 2025 & 2032

Figure 58. World Electric Vehicle PTC Heaters Production Value Market Share by Use in 2025

Figure 59. Passenger Cabin Air Conditioning and Heating

Figure 60. Battery Thermal Management System

Figure 61. Steering Wheel and Seats

Figure 62. Glass Defrosting

Figure 63. World Electric Vehicle PTC Heaters Production Market Share by Use (2021-2032)

Figure 64. World Electric Vehicle PTC Heaters Production Value Market Share by Use (2021-2032)

Figure 65. World Electric Vehicle PTC Heaters Average Price by Use (2021-2032) & (US\$/Unit)

Figure 66. World Electric Vehicle PTC Heaters Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 67. World Electric Vehicle PTC Heaters Production Value Market Share by Application in 2025

Figure 68. Normal EV/HEV/PHEV

Figure 69. Midrange EV/HEV/PHEV

Figure 70. High-End EV/HEV/PHEV

Figure 71. World Electric Vehicle PTC Heaters Production Market Share by Application (2021-2032)

Figure 72. World Electric Vehicle ?PTC ?Heaters Production Value Market Share by Application (2021-2032)

Figure 73. World Electric Vehicle ?PTC ?Heaters Average Price by Application (2021-2032) & (US\$/Unit)

Figure 74. Electric Vehicle ?PTC ?Heaters Industry Chain

Figure 75. Electric Vehicle ?PTC ?Heaters Procurement Model

Figure 76. Electric Vehicle ?PTC ?Heaters Sales Model

Figure 77. Electric Vehicle ?PTC ?Heaters Sales Channels, Direct Sales, and Distribution

Figure 78. Methodology

Figure 79. Research Process and Data Source

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