

# Global V2L (Vehicle to Load) Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global V2L (Vehicle to Load) market size is expected to reach \$ 6698 million by 2032, rising at a market growth of 12.1% CAGR during the forecast period (2026-2032).

V2L (Vehicle to Load) is the basic application of the on-board power inverter discharge function of electric vehicles. It is a unidirectional energy output (only the power battery ? external electrical equipment). The on-board inverter converts the battery DC power into industrial frequency AC power. It does not connect to the power grid, does not rely on bidirectional charging piles, and does not link with the home/power grid system. It directly supplies power to various external independent electrical loads, turning electric vehicles into high-capacity, zero-emission, and quiet mobile emergency power sources.

The production volume of V2L (Vehicle to Load) by 2025 is 8.06 million sets, with an average price of US\$360 per set.

Vehicle to Load is a technology that allows an electric vehicle to supply power directly to external electrical loads by converting stored battery energy into AC or DC output through onboard inverters and control systems, effectively turning the vehicle into a mobile power source. The upstream includes onboard inverters, power semiconductor devices, output connectors and cables, control and protection circuits, and vehicle energy management software, with inverter efficiency and safety protection being the key factors affecting reliability and user experience. Downstream applications are mainly focused on outdoor recreation and camping, emergency response and disaster relief, construction and maintenance operations, and selected light commercial or special-purpose vehicles, where users prioritize stable power output, safety, and minimal impact on vehicle driving range.

The development trend of V2L emphasizes higher output power levels, greater standardization of interfaces and usage methods, deeper integration with vehicle energy management systems, and its evolution into a standard feature of electric vehicles. Driving factors include the growing electric vehicle fleet, the rise of outdoor and camping lifestyles, increasing demand for emergency and mobile power supply, and automakers using V2L as a differentiating feature to enhance product appeal. Key challenges include power output limitations imposed by onboard systems, potential battery degradation from prolonged external discharge, lack of uniform standards across vehicle models, and insufficient user awareness of safe operating practices. In terms of gross margin, V2L is typically offered as an integrated vehicle feature or auxiliary module, with hardware and system gross margins generally in the range of 20% to 35%, while its contribution to overall vehicle profitability is more significant as a value-added function rather than as a standalone hardware product.

This report studies the global V2L (Vehicle to Load) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for V2L (Vehicle to Load) 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 V2L (Vehicle to Load) that contribute to its increasing demand across many markets.

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

Global V2L (Vehicle to Load) total production and demand, 2021-2032, (K Sets)

Global V2L (Vehicle to Load) total production value, 2021-2032, (USD Million)

Global V2L (Vehicle to Load) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sets), (based on production site)

Global V2L (Vehicle to Load) consumption by region & country, CAGR, 2021-2032 & (K Sets)

U.S. VS China: V2L (Vehicle to Load) domestic production, consumption, key domestic manufacturers and share

Global V2L (Vehicle to Load) production by manufacturer, production, price, value and

market share 2021-2026, (USD Million) & (K Sets)

Global V2L (Vehicle to Load) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sets)

Global V2L (Vehicle to Load) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sets)

This report profiles key players in the global V2L (Vehicle to Load) 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 Miles Energy, Hyundai, BMW, Ford, Nissan, BYD, Renault Group, Honda, MG Motor, Chery, 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 V2L (Vehicle to Load) market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Sets) and average price (US\$/Set) 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 V2L (Vehicle to Load) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global V2L (Vehicle to Load) Market, Segmentation by Type:

110V

220V

380V

Global V2L (Vehicle to Load) Market, Segmentation by Power:

Below 3.3kW

3.3-7kW

7-22kW

Above 22kW

Global V2L (Vehicle to Load) Market, Segmentation by Interface and Implementation:

Vehicle-Mounted Integrated

Adapter Conversion Type

Other

Global V2L (Vehicle to Load) Market, Segmentation by Application:

Outdoor Leisure Activities

Home Emergency Backup Power

Outdoor Engineering

Mobile Commerce

Emergency Rescue

Other

#### Companies Profiled:

Miles Energy

Hyundai

BMW

Ford

Nissan

BYD

Renault Group

Honda

MG Motor

Chery

Metron

#### **Key Questions Answered:**

*Global V2L (Vehicle to Load) Supply, Demand and Key Producers, 2026-2032*

1. How big is the global V2L (Vehicle to Load) market?
2. What is the demand of the global V2L (Vehicle to Load) market?
3. What is the year over year growth of the global V2L (Vehicle to Load) market?
4. What is the production and production value of the global V2L (Vehicle to Load) market?
5. Who are the key producers in the global V2L (Vehicle to Load) market?
6. What are the growth factors driving the market demand?

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