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On-Board AC-DC Charger Market, Global Outlook and Forecast 2022-2028

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Abstracts

The on-board charger can be divided according to the number of phases (one phase, two-phase or three-phase) and output. The power output of the on-board charger is usually between 3.7 kW and 22 kW. The on-board charger allows you to control the current and voltage that the battery needs to charge (voltage or current control mode), thus guaranteeing the longevity of the battery. The charger provides constant current or constant voltage charging, both of which are easy to operate. They each have advantages and disadvantages. In the case of constant-current charging, the efficiency and charging speed are high, but there is a risk of overcharging the battery at a later stage, shortening its life. In the case of constant voltage charging, there can be too much current flowing into the battery from the start, which can overheat the battery and shorten its life again. Therefore, the charger ensures that it is initially charged at a constant current, thus maintaining speed and efficiency, and when the voltage across the battery reaches a certain magnitude, the charger changes to constant voltage charging. This system, called charging strategy, is the most important function of an on-board charger. The first stage is the so-called PFC stage (Power Factor Controller or Power Factor Correction), which converts alternating current to direct current. This part of the charger determines whether it can use single-phase, two-phase or three-phase AC power. The output voltage of 700V then goes into the second phase. The second stage is called LLC converter. The input is the above 700V, and the output is the voltage required by the battery at a given charging moment.

This report contains market size and forecasts of On-Board AC-DC Charger in global, including the following market information:

Global On-Board AC-DC Charger Market Revenue, 2017-2022, 2023-2028, ($ millions)

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Global On-Board AC-DC Charger Market Sales, 2017-2022, 2023-2028, (K Units)

Global top five On-Board AC-DC Charger companies in 2021 (%)

The global On-Board AC-DC Charger market was valued at million in 2021 and is projected to reach US$ million by 2028, at a CAGR of % during the forecast period 2022-2028.

The U.S. Market is Estimated at $ Million in 2021, While China is Forecast to Reach $ Million by 2028.

One Phase Segment to Reach $ Million by 2028, with a % CAGR in next six years.

The global key manufacturers of On-Board AC-DC Charger include BYD, Nichicon, Tesla, Infineon, Panasonic, Delphi, LG, Lear and Dilong Technology, etc. In 2021, the global top five players have a share approximately % in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the On-Board AC-DC Charger manufacturers, suppliers, distributors and industry experts on this industry, involving the sales, revenue, demand, price change, product type, recent development and plan, industry trends, drivers, challenges, obstacles, and potential risks.

Total Market by Segment:

Global On-Board AC-DC Charger Market, by Type, 2017-2022, 2023-2028 ($ Millions) & (K Units)

Global On-Board AC-DC Charger Market Segment Percentages, by Type, 2021 (%)

One Phase

Two Phases

Three Phases

Global On-Board AC-DC Charger Market, by Application, 2017-2022, 2023-2028 ($ Millions) & (K Units)

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Global On-Board AC-DC Charger Market Segment Percentages, by Application, 2021 (%)

PHEV

EV

Global On-Board AC-DC Charger Market, By Region and Country, 2017-2022, 2023-2028 ($ Millions) & (K Units)

Global On-Board AC-DC Charger Market Segment Percentages, By Region and Country, 2021 (%)

North America

US

Canada

Mexico

Europe

Germany

France

U.K.

Italy

Russia

Nordic Countries

Benelux

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- Rest of Europe
- Asia
  - China
  - Japan
  - South Korea
  - Southeast Asia
  - India
  - Rest of Asia
- South America
  - Brazil
  - Argentina
  - Rest of South America
- Middle East & Africa
  - Turkey
  - Israel
  - Saudi Arabia
  - UAE
  - Rest of Middle East & Africa

Competitor Analysis

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The report also provides analysis of leading market participants including:

Key companies On-Board AC-DC Charger revenues in global market, 2017-2022 (Estimated), ($ millions)

Key companies On-Board AC-DC Charger revenues share in global market, 2021 (%)

Key companies On-Board AC-DC Charger sales in global market, 2017-2022 (Estimated), (K Units)

Key companies On-Board AC-DC Charger sales share in global market, 2021 (%)

Further, the report presents profiles of competitors in the market, key players include:

BYD

Nichicon

Tesla

Infineon

Panasonic

Delphi

LG

Lear

Dilong Technology

Kongsberg

Kenergy

Wanma

IES

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Anghua

Lester

Tonhe Technology

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