Battery chassis integration technology

What is integrated battery research?

Integrated battery research refers to the trends of CTP,CTC,and CTB. The basic concept of integrated battery research is the mode of integrating battery cells(CTP,CTC,and CTB being different methods of integration). The traditional integration method of new energy vehicle power systems is CTM,or "Cell to Module," which represents the mode of integrating battery cells on modules.

What is CTC (Cell to Chassis)?

CTC (Cell to Chassis) is the process of integrating the battery cells directly into the vehicle chassis. This deepens the integration of the battery system with the EV power system and chassis,reduces the number of components,saves space,improves structural efficiency,significantly reduces vehicle weight,and increases battery range.

What are the trends in passenger car battery integration in 2022?

In 2022,the passenger car battery integration shows following trends. In 2022,CTP,CTC and CTB technologies achieve scale installation. Users of CATL CTP include Tesla Model 3/Y,Xpeng P7/G3,NIO ES6/ET7,Roewe RES33,Neta and many other models; Leap Motor released CTC battery-chassis integration and BYD launched CTB for Seal series.

What is the traditional integration method of new energy vehicle power system?

The traditional integration method of new energy vehicle power system is CTM,that is,"Cell to Module",which represents the mode of integrating battery cells on modules.

What is CTC battery technology?

In terms of range,CTC technology can minimize the weight and space of battery packs by eliminating the need for castings,thus enabling electric vehicles to have a range of at least 800 km. Under the CTC battery technology,the electric cell can be integrated directly into the chassis,achieving a higher degree of integration.

When will CATL launch a fifth-generation electric chassis system?

The company will also launch its fifth-generation,intelligent CTC electric chassis system around 2028,said Xiang Yanhuo,president of CATL China's passenger vehicle solutions division,who revealed the plan at the 10th Global New Energy Vehicle Conference on the evening of January 27.

China Commercial Vehicle Intelligent Chassis Industry Report 2023: Battery-chassis Integration Reshapes Supply Relationships PR Newswire Thu, Feb 29, 2024, 6:00 AM 8 min read

Cell-to-body, also called cell-to-chassis technology, is when the battery cells are seamlessly installed into a car"s structure. This reduces the weight of the vehicle and frees up space that would have been needed for a ...

Battery chassis integration technology

By directly integrating the battery cells into the chassis, the IMMERSIO(TM) CTC battery increases energy density by over 35%, while reducing vehicle weight and maximizing range. This integration, combined with the unparalleled fire safety of immersion cooling, positions XING Mobility at the forefront of the EV industry"s future.

While the battery maker has a lot of technology under its belt, CTC technology is, after all, the integration of electric cells into the vehicle chassis, where car companies have more of an advantage, so CATL needs ...

CATL will officially launch its highly integrated CTC (Cell to Chassis) battery technology around 2025. Cai Jianyong, former general manager of intelligent vehicle control in Huawei Intelligent ...

There are two main types of CTC battery integration schemes, the first is battery pack chassis integration, which is to directly integrate the battery pack into the chassis frame to...

CATL will officially launch its highly integrated CTC (Cell to Chassis) battery technology around 2025. Cai Jianyong, former general manager of intelligent vehicle control in Huawei Intelligent Vehicle Solutions BU, joined CATL and ...

CTC (Cell to Chassis) is the process of integrating the battery cells directly into the vehicle chassis. It further deepens the integration of battery system with EV power system and chassis ...

By directly integrating the battery cells into the chassis, the IMMERSIO(TM) CTC battery increases energy density by over 35%, while reducing vehicle weight and maximizing ...

According to the manufacturer, the C01 will offer around 700 kilometres NEDC range with a 90 kWh battery. As Leapmotor states on its homepage, the company"s cell-to-chassis technology (CTC) integrates the ...

On May 20, BYD released CTB battery body integration technology and seal, the first e-platform 3.0 model equipped with CTB technology. BYD seal is the world"s first mass-produced vehicle equipped with CTB technology. It is also the first vehicle equipped with ITAC technology, rear drive / 4WD power architecture, front double wishbone + rear five link chassis suspension. ...

Web: https://vielec-electricite.fr