New energy battery wiring

From the consideration of structure, space, etc., the future new energy vehicle will definitely use a large number of FPC instead of wiring harnesses, will be applied in many parts of the vehicle to achieve, so FPC technology in automotive electronics, especially intelligent vehicles is a very important trend, especially in battery BMS, vehicle ...

The acquisition line is an important component required for the BMS system of new energy vehicles, which can monitor the voltage and temperature of the new energy power battery cells; Connect data acquisition and transmission with overcurrent protection function; Protect the car ...

Through refined design and advanced manufacturing processes, new energy vehicles can achieve lightweight wiring harness systems, thereby improving overall vehicle energy efficiency. Data Transmission Wiring Harnesses. New energy vehicles integrate numerous electronic control units (ECUs) and sensors, which require data transmission through ...

With up to 17 years of research and development experience, our new energy management products and services are widely used in key power supply areas such as new energy developers, residential, grid, transportation, commercial, and industrial sectors. For further inquiries about battery management systems, please feel free to contact us. By ...

The following are some of the key design considerations for wiring harnesses in NEVs. 1. Powertrain architecture: NEVs have a different powertrain architecture than traditional vehicles. They use electric motors and batteries instead of internal combustion engines. Therefore, the Wire Harness must be designed to handle high voltage and current ...

New energy vehicles need to use large-diameter wires in high-voltage batteries, inverters, transformers, low-voltage batteries, air-conditioning compressors, etc., and the number is very large.

Today, we will learn the wiring harness design and wire requirements of new energy vehicles. The battery voltage of large voltage/large current new energy vehicle can reach 600V, and the corresponding wire voltage level can reach 300A.

The high-voltage wiring harness is mainly responsible for transferring high-voltage electric energy to provide energy for the motor and battery of new energy vehicles; The low-voltage harness is responsible for transmitting various control signals to ensure the normal operation of the vehicle.

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