Dc charging module

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Flexible, reliable, low-cost power module for ev charging(charger) station. MXR series ac/dc charging module is key power part of dc ev fast charger, which converts ac to dc and then charge electric vehicles, providing reliable dc supply for equipment requires dc power.

? ultra-wide output voltage range, 100~ 1000vdc, suitable for various models;? ultra-high output power, in 300v~1000v output voltage, 30kw constant power output;? wide operating temperature range, -40? ~ 75?;? full load efficiency is higher than 95.5%, high efficiency in the whole working range, and more energy saving;? ultra-low noise, improve user charging experience;? the current in the low-voltage area does not shrink, and the charging speed is faster;? the module is built with residual pressure relief loop to reduce system cost and improve system reliability;

Charging pile is an outdoor application product, the air inlet temperature in summer is normally 50 ~60?, the heat problem of charging module is very prominent, and most of charging module in the market cannot withstand the high temperature environment (generally 50? or 55? full power), which can only limit the amount of power to use that greatly reduces the charging speed!MXR100030 can output full power at 60?, effectively ensuring the charging speed in high temperature environment.

Shijiazhuang Maxwell Technology Co., Ltd is a national high-tech enterprise and a leading enterprise in new energy and energy Internet supported by the Shijiazhuang Municipal Government. Electric vehicle charger module related certificates.

High-frequency isolation DC/DC bidirectional module(20kW / 15kW)The DC/DC module adopts high-frequency isolationbidirectional conversion technology, that is, soft switching resonance technology, which has high efficiency, and the converter energy flows in both directions, and the charge and discharge are automatically converted; It adopts DSP design, supports module parallel function, supports CAN/RS485 communication, and is convenient to communicate and control with third-party equipment.

This power module is widely used in common DC bus application scenarios, such as storage charging, optical storage charging, storage and charging inspection, battery echelon utilization energy storage, vehicle network interaction V2G and other multi-energy complementary scenarios, battery and DC bus high frequency Isolation is the first choice for the energy bidirectional flow application industry.

Product AdvantagesSafer and more reliableFull high frequency isolation design to ensure the safety between the battery and the DC bus;DSP+CPLD full digital control, multiple and multi-level software and hardware protection ofovercurrent, overvoltage and overtemperature, safe and reliable;Reliable parallel function, convenient power expansion, up to 16 modules in parallel.

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More efficientThe DC/DC module adopts soft switching resonance technology, and the highest efficiency is 97%;Compared with traditional non-isolated DC/DC, this module saves power frequency transformer in system application, and has higher high-frequency isolation efficiency, up to 97%.

Smarter and more friendlyCovers multiple battery voltage levels for passenger cars (40V~750Vdc), with a wide battery voltagerange; The wider DC bus voltage is convenient to connect to the DC bus of various specifications.

Lower costCompared with the traditional bidirectional power supply scheme, the high-frequency isolation eliminates the power frequency transformer, and the system cost is low; Through a set of circuits, two functions of charging and inversion are realized, charging and discharging are integrated, and the cost is low.

More flexible configurationStandard charging pile module width, compact structure;Module hot swap design, flexible system configuration;It is convenient for system integrators to flexibly design different forms of storage and charging, optical storage and charging, storage and charging inspection or energy storage systems.

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