

Vehicle To Home (V2H)

CHAdeMO To Home
Output Power: 1-3KW/Single Phase



EVs as power sources for living

"Vehicle to Home" is a system that allows you to supply your home with the energy stored in a Nissan LEAF's battery.

By charging up a Nissan LEAF at night when there is more capacity for electrical supply and then using that electricity as the daytime power source for a household, the system helps alleviate consumption of power in peak periods when demand is highest. Further, it can also be leveraged as backup power supply for emergencies.

Technology Functionality

Household power can be supplied from a Nissan LEAF lithium-ion battery by installing a PCS (Power Control System) connected to the household's distribution board, while plugged into the Nissan LEAF DC quick charge port. To use the electricity stored in the Nissan LEAF lithium-ion battery as household power it is necessary to convert the DC high-voltage electricity to AC 100-260V. The Nissan LEAF EV lithium-ion battery has large capacity and

high reliability, meaning it can provide a stable power supply.

EV Power Station : Specifications

Input voltage range: Maximum DC 450V

Input current range: DC 0-30A (Common Power 3kw)

Output voltage: AC 220V ($\pm 6\%$), 50Hz / 60Hz, Single phase

Output current range: AC 0-14A

Peak power output: 1-3kW

Conversion efficiency: 92% or more