Honda's advanced technology supporting low-carbon and comfortable lifestyles.

Maximize the use of electricity from solar power generation

It is possible to use a maximum of 5.5 kW from electricity generated via solar power.

Automatic transfer switch

During power outages, autonomous operation mode is automatically activated, supplying electricity from sources such as solar power and EV. Users do not have to touch the switch.

Stable Energy Supply

Depending on the time and weather during electrical usage, the optimal energy type is automatically selected. Stabilized and efficient energy is always supplied.

Easy-to-install Wall Mount Type

Adopting a high-frequency insulation method without using a commercial transformer makes the Power Manager very light and compact. It can be mounted on a wall thus saving space in a garage, compared to a pole-type installation.

Charge/Discharge connector that can be mounted to either side

The charge/discharge connector that plugs into the EV can be installed on either side of the charge/discharge box.

Single-phase 3-wire 200 V Compatible

By adopting a single-phase 3-wire system, even during power outages, it is compatible with both 100 V and 200 V power outlets.

Quiet design with only Approx. 40 dB(A)

Operational noise is subdued, creating a library-like quietness.

International Standardized CHAdeMO Protocol has been adopted

CHAdeMO, the international standard for DC quick charging for electric vehicles is adopted. By communication between the car and the charger, optimal DC power supply is available for charging and discharging.

International standard ECHONET Lite™ applied

By adopting Japan's domestic HEMS standard protocol, it is possible to operate equipment compliant with ECHONET Lite™.

Complied with international standard IEC 62909-1

Complied with international standards that establish function, safety and other general requirements of utility-interactive bidirectional devices which have 2 or more input ports for distributed power sources such as EV, solar power, and home batteries.

HONDA
The Power of Dreams

Main Specifications

Power Supply Unit

Name	V2H Compatible DC Normal Charger
Model	UEAJ
Rated Voltage / Frequency	AC 200 V (Single Phase, 3-Wire), 50 Hz / 60 Hz
External AC Input Terminal (During Power Outage)	○※1
Solar Power Capacity	Rated 5.5 kW
Protection	Earth Leakage Breaker Function, Lightning Surge Protection
Power Supply Unit Weight	Approximately 80 kg
External Dimensions	D 300 mm × W 900× H 600 mm
Environmental Conditions	-15 ℃~40 ℃
Dustproof and Waterproof	JIS C 0920 IP44 Equivalent
Installation Area (Method)	Outdoor (Wall-Mounted Type)
Communication Interface	Ethernet
Communication Protocol	ECHONET Lite™
Applicable Standards	IEC 62909-1

Charge / Discharge Unit

Charge / Discharge Unit Method	DC Charging / Electric Vehicle Specific Charge and Discharge System Guideline V2H DC Version 2.1 (Category 3) Compliance※2
Rated Output	5.5 kW
Charging Unit Weight	Approximately 14 kg
External Dimensions	D 200× W 190 × H 600 mm
Charging Cable Length	CHAdeMO Protocol Approximately 4 m
Functions	Start / Stop Button, Operation Mode Switch, Error lamp, Emergency Stop Button, Connector Holder with a lock, EVPS Supply Terminal

Switch

External Dimensions	D 110 × W 590 × H 320 mm
Switch weight	Approximately 7 kg
Power Outage Response	○※3 (Automatic switch)

※1 Maximum 1 kW / 100 V Household-use Cogeneration System, Power generator connection possible※4
※2 Some of the functions are not available on vehicles with different versions of the V2H Guideline.
※3 Automatic switch single phase 3-wire 100 V, 200 V Maximum 4 kVA compatible ※4 Dependent on adaptor equipment

Example of products compatible with Honda Power Manager

 CLARITY FUEL CELL	Fuel Cell Stack	103 kW
	Motor	130 kW
	Number of occupants	5
 FIT EV	Total Power Voltage	331 V
	Total Electricity	20 kWh
	Number of occupants	5
 Engine Generator (EU15iGP)	Rated output	1.5 kVA
	Continuous Run (Hours) 50 Hz Spec	Approximately 74 (When using LP Gas 50 kg tank)
	Fuel	Low-pressure LP Gas
 Household-use Cogeneration System		

For Honda Smart Community Activities, Inquiries

Please scan the QR code on the right, or access via the following URL.
http://www.honda.co.jp/smartcommunity/

The above information is as of May 2018.

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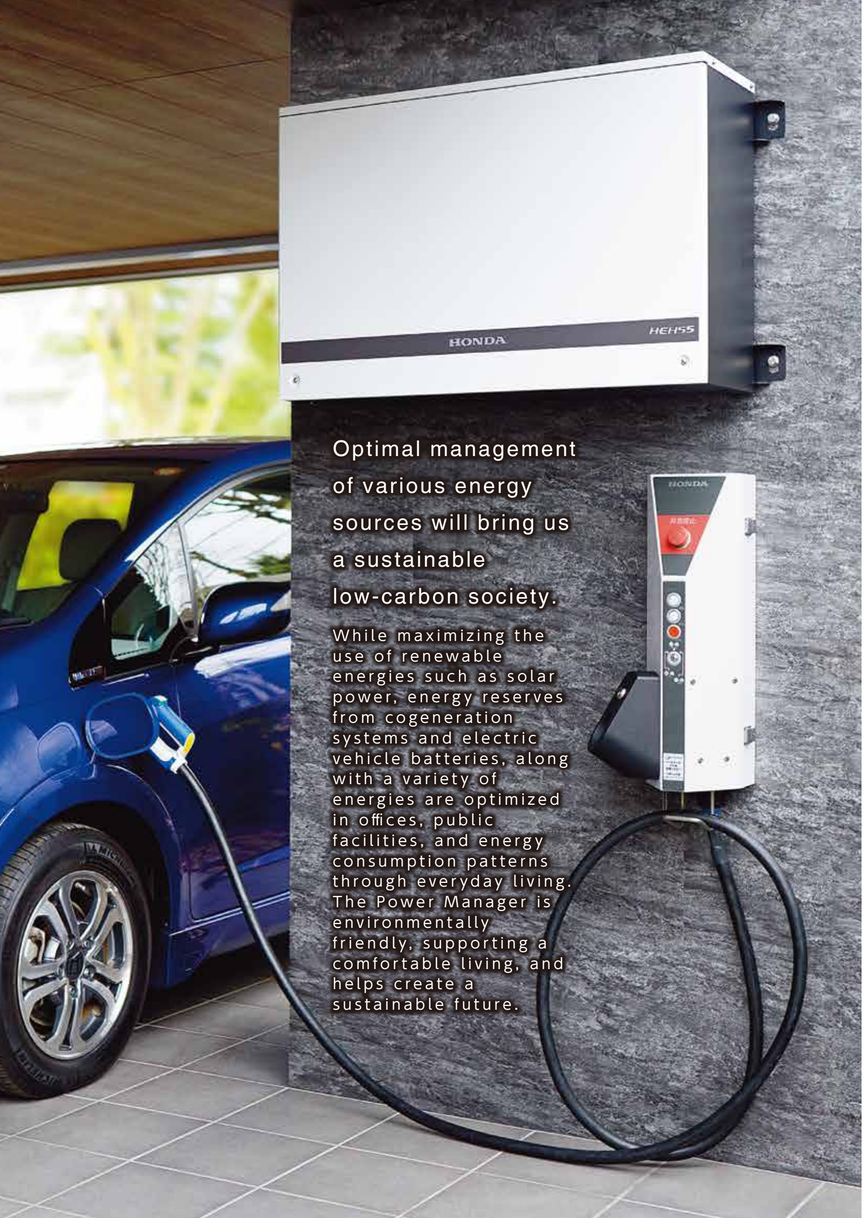
Design a smart future with various energy sources

Power Manager

(V2H Compatible DC Normal Charger)

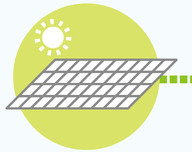


Optimal management of various energy sources will bring us a sustainable low-carbon society.

While maximizing the use of renewable energies such as solar power, energy reserves from cogeneration systems and electric vehicle batteries, along with a variety of energies are optimized in offices, public facilities, and energy consumption patterns through everyday living. The Power Manager is environmentally friendly, supporting a comfortable living, and helps create a sustainable future.

Through the use of solar power and clean air vehicles, energy use is minimized.

Residential Renewable Energy



Solar power

Solar power is the most common type of renewable energy for residential-use.

Wind power

Small-size wind generator systems for household use can be installed easily.

Power Manager

Conversion from DC power to AC power

Power Manager converts DC power generated from sources such as renewable energy to AC power which is of similar quality to office and residential outlets.

Optimal energy supply during power outage

During power outages, the Power Manager can use electricity not only from solar power and EV but also from gas engine cogeneration systems and engine generators for optimal energy supply.

※ For electrical load during a power outage, prior confirmation is required.

Next Generation Zero Emission Vehicle (ZEV)

Electric Vehicle (EV)

Expectations to expanded usage of V2H (Vehicle to Home) which utilizes EV battery power at home.

Fuel Cell Vehicle (FCV)

Clarity FUEL CELL can supply approximately 7 days※ worth of electricity to an average household.

Electric Power Company

Generator

Can generate power from both gasoline and portable gas cartridges and is used as the most familiar power source during a power outage.

Cogeneration system

Can generate power from gas and utilizes the generated heat for hot-water supply or heating.

Electricity Flow

All in one controlling and management of various energy resources in the most optimal way.

Power Manager controls a wide range of energy resources from renewable energy such as solar power and wind power, EV, gas cogeneration system which generates power and supplies heated water, to electricity generated by a gasoline generator. Power Manager can optimally manage the various types of energy and supplies economical and stable low-carbon power to daily life at offices and public facilities, all in one.

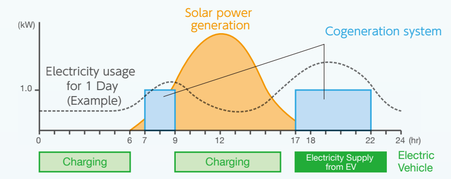
EV and FCV* as power outlets at offices and homes

Power Manager can be used not only to charge EV's but also to take electricity from EV batteries and FCV'S and supply to offices and homes. At peak hours of electricity consumption, by utilizing surplus electricity, of solar power generation or electricity stored at night when the electricity cost is cheaper, users can save on bills, CO_2 emission is reduced,and can contribute to peak shaving.

*Electricity supply from FCV is available only during power outages.

Generate and Use Energy in daily life.

Matching your lifestyle from the energy consumption patterns, solar power is utilized to a maximum during the day, and cogeneration systems with hot water supply functions are used in the morning and at night. In addition, the efficient use of electric vehicles and other such resources allows energy to be astutely combined and used so that energy is both created and consumed at home, making it possible for the home to be a self-sustaining energy source.



Power Manager directly controls the solar power generation output so that electricity can be converted to household-use power without any waste.

Through VPP, the Power Manager brings a rich and sustainable low-carbon society.

The Power Manager is one of the VPP items that allow electricity to work bidirectionally. In the near future, when it becomes possible to control regional energy demands by connecting the Power Managers scattered in the region, dependence on large scale power plants would no longer be required, and local consumption of energy would be possible.

VPP : Virtual Power Plant. Through technology in energy management, renewable energy generation facilities and/or storage battery energy facilities within a region can be connected to a network, functioning as if it were a power plant.

※ Based on data from the Federation of Electric Power Companies, scenario converting the average electrical energy consumption in one day of average residential household. However, note that electricity supply times will vary based on use environment.