

**HONDA**  
The Power of Dreams



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Honda  
Charging  
Accessories

# MAKE THE RIGHT CONNECTION

To make the most of your Honda electrified vehicle\*, always pair it with a genuine Honda Power Charger.

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\*EV and PHEV models only.





## INTRODUCTION

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All Honda Power Chargers are effortless to use, reliable and efficient. Available in a choice of three models and built to the same exacting standards as every Honda product, they include a wealth of ingenious features that will make every driver's life easier.



# KEY FEATURES

Whether used at home or in business, Honda Power Chargers deliver unrivalled safety, efficiency and ease of use.



QUALITY



SAFETY



EASE OF INSTALLATION



ERGONOMIC DESIGN



FAST, RELIABLE CHARGING



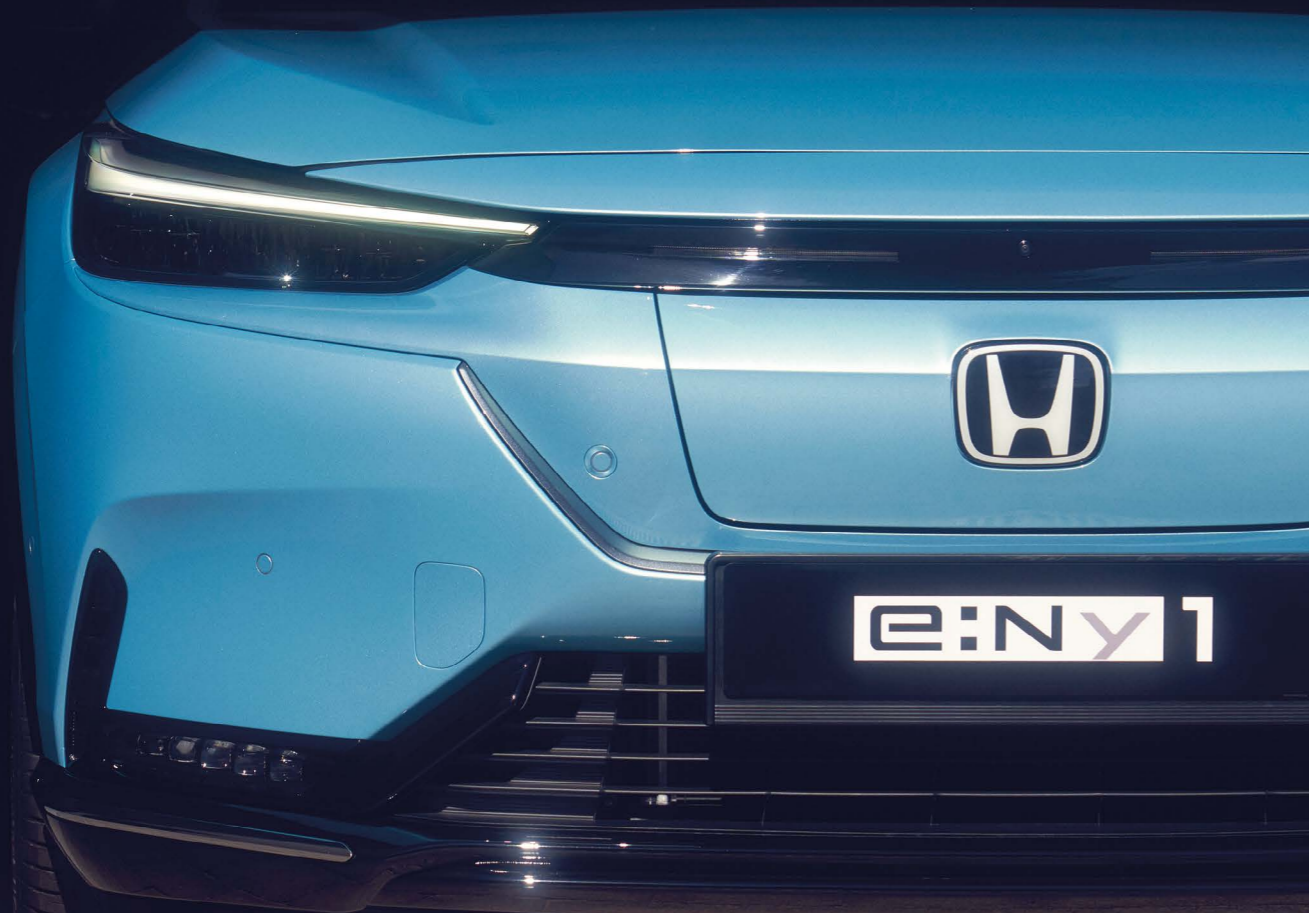
SMART HOME TECHNOLOGY



USER AUTHORISATION



MONITOR ENERGY USAGE



## EASE OF INSTALLATION

The charger can be installed before the car is delivered, enabling the new Honda electrified vehicle\* owner to enjoy their new car from day one. Installation itself is a simple process, whether the unit is mounted on a wall or the optional pedestal. It usually involves just one visit from a certified electrician and once it's done, no ongoing maintenance is required.



## ERGONOMIC DESIGN

Honda Power Chargers include an LED status bar which indicates the current mode, plus a digital display\*\* showing the energy (kWh) used. When the cable is connected correctly, it locks on both sides for maximum safety.

- READY FOR CHARGING**
- AUTHORISATION REQUIRED**
- WAIT FOR LOCKING**
- ERROR**

\*EV and PHEV models only  
\*\*For more information on which Honda Power Charger this and other features are available on, please refer to pages 19-20.



## QUALITY

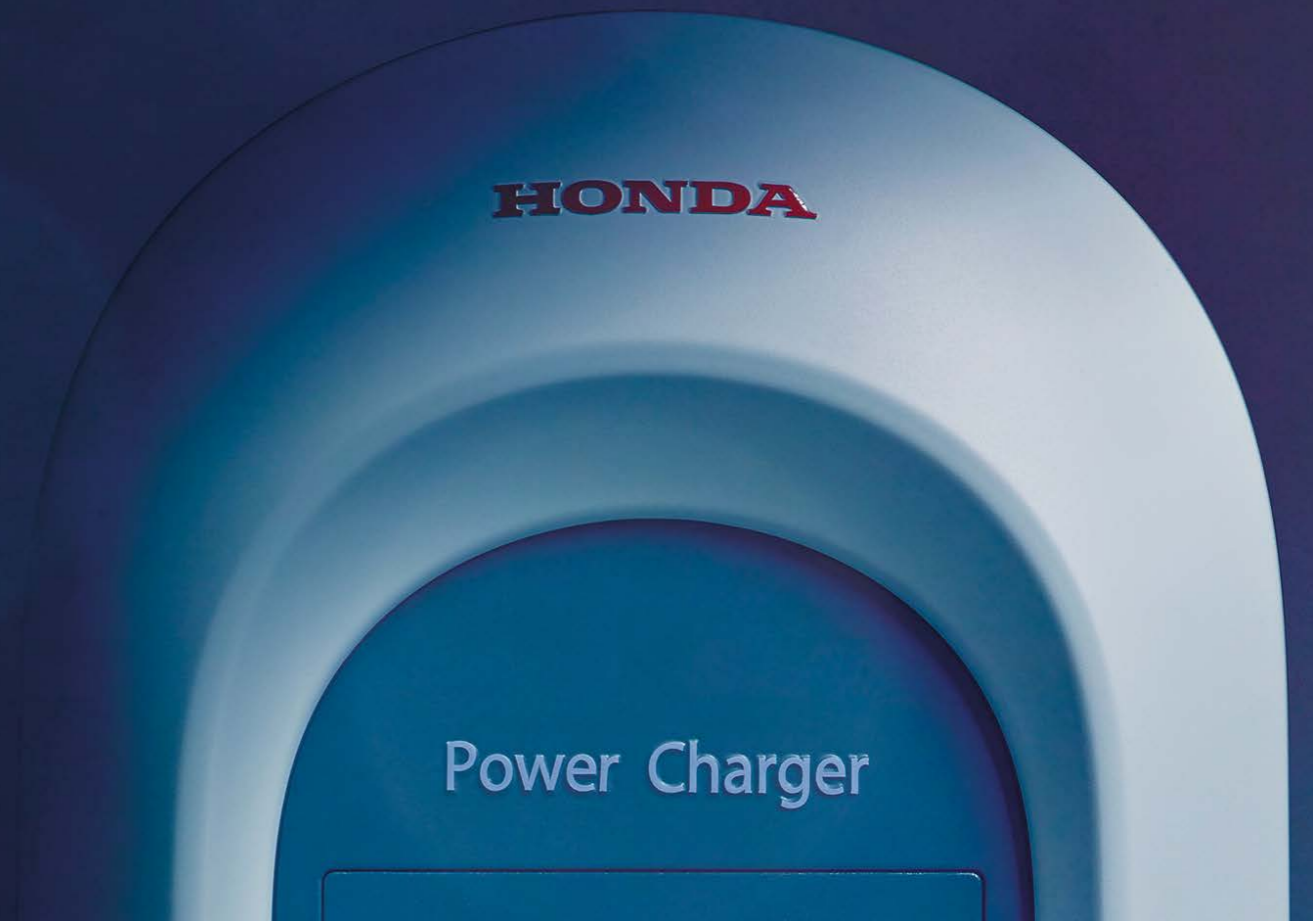
The Honda Power Charger has undergone extensive testing and comes with a full 3-year warranty. Designed to be future proof, it can be updated quickly and easily, whenever required.

**Certifications: CE Label**



## SAFETY

Safety is always our top priority. That's why our Power Chargers have been designed for both outdoor and indoor use, whatever the weather. To fulfil the mandatory safety directives for home installation, only a Type A RCD is required, rather than a more expensive Type B unit.





## FAST, RELIABLE CHARGING

### ALWAYS BE READY TO GO

The Honda Power Charger uses the AC current used in every home and allows Honda electrified vehicle\* owners to charge to 100% capacity in the most efficient way, assuming a 32A current supply is available.

### CHARGE WITH A CHOICE OF CABLES

The Honda Power Charger can be used with a range of different cables. When a cable is attached, a sophisticated power management system checks its specification and maximum current. Charging will begin once the cable is approved by the system and locked.

### BUILT TO STAY COOL

The Honda Power Charger monitors the temperature continuously, reducing power if necessary. If the temperature does get too high, charging will initially lower in capacity. If this is insufficient, the charging process will be paused. Charging will then resume automatically when the temperature returns to a safe level.





## FAST, RELIABLE CHARGING

### AUTO-RECOVERY ENSURES A FULL CHARGE

Most people want to charge their electrified vehicles\* unsupervised (to take advantage of lower tariffs at night, for example). If the process is interrupted for any reason, the Power Charger will ensure it is safe to resume before allowing the current to flow again.

Types of interruption include:

- A power outage
- A fall in the voltage of the electricity supply
- A fault in the electrical current
- Any unexpected signal from the car
- An incorrectly connected cable

In most cases, charging will resume automatically once all components (the car, the cable and the charger itself) are deemed safe. The system will check them and attempt to restart charging up to five times before concluding there is a persistent problem.

In the case of a power outage, the system's behaviour will depend on the type of charger in use. All chargers are able to continue charging automatically after a power outage, provided the 'No Authorisation Required' setting is selected.



## SMART HOME TECHNOLOGY

As well as being easy to use, the Honda Power Charger has been designed for simple integration with today's most popular smart home technologies. Thanks to UDP, Modbus TCP and an input switch, it can easily connect with the technology at the heart of many homes. This means the charger can be controlled by a smart home hub, allowing drivers to limit the amount of charge available to the car in a given period. By monitoring the home's power usage in real time, the charger can vary the current to ensure the home installation is not overloaded. For homes with solar panels, it can even prohibit charging unless the sun is shining.

With a Honda Power Charger installed in a smart home, the possibilities are practically endless.







## USER AUTHORISATION

A contactless card system (based on RFID) allows use of the charger to be limited to cardholders only. This means extra security in shared living spaces and businesses using the Honda electrified vehicle\* as a pooled vehicle. A maximum of 1024 cards can be used with a single Power Charger S+, while the Power Charger S offers a maximum of 20 cards per unit.



## MONITOR ENERGY USAGE

The system is fully MID and M&E-certified, allowing employees with a company car to retrieve their usage from the web interface as a CSV export, which they can then forward on to their employer. Contactless cards can be used to track the usage of individual drivers and potentially link them to vehicle data.

# MODEL OVERVIEW

There are three models available, depending on the needs of the driver.

## Honda Power Charger

Offers a charging capacity of up to 22kW three phase or 7.4kW single phase, for faster home charging.



## Honda Power Charger S

Features intelligent charging, smart home integration and the ability to set user permissions. The Honda Power Charger S includes the features available on the Honda Power Charger as well as the features below.



## Honda Power Charger S+

Capable of communicating with multiple units and offering e-mobility solutions such as local load management. The Honda Power Charger S+ includes the features available on the Honda Power Charger S as well as the features below.



# FEATURES OVERVIEW

A simple comparison chart that clearly shows the specification of the chargers and charging cables available.

FEATURES	Honda Power Charger	Honda Power Charger S	Honda Power Charger S+
Up to 22kW three phase / 7.4kW single phase	♦	♦	♦
USB interface	♦	♦	♦
Ethernet interface (RJ45)	♦	♦	♦
DC leakage detection	♦	♦	♦
Enable input / Switch output	♦	♦	♦
Power monitoring	♦	♦	♦
Rated supply voltage to the charger 230V or 3x 230V 400V	♦	♦	♦
Authorisation (RFID)	-	♦	♦
Metering (MID certified) for billing purposes*	-	♦	♦
Metering (M&E certified) for billing purposes*	-	♦	♦
Ethernet interface for permanent installation (LSA+)	-	♦	♦
Smart home integration (UDP interface)*	-	♦	♦
Display with charged energy (total and per charging session)*	-	♦	♦
Slave for Master/Slave communication	-	♦	-
Master for Master/Slave communication	-	-	♦
OCPP communication as a Slave	-	♦	-
OCPP communication as a Master	-	-	♦
Local load management as a Slave	-	♦	-
Local load management as a Master	-	-	♦
Master for Master/Slave communication	-	-	♦
Communication to external energy meter via Modbus TCP	-	-	♦
WLAN communication for the wireless integration of wallboxes in an existing network	-	-	♦

\*For HPC S only in slave mode.



MODE 2 CHARGING CABLE	MODE 3 CHARGING CABLE
Portable Electric Vehicle Supply Equipment (EVSE) for grid-vehicle charging	To connect vehicle to Honda Power Charger or public charger
Current capacity: Maximum current capability 10A, 1 phase (country restrictions). Maximum charging power is 2.3kW (country restrictions)	1-phase or 3-phase charging for Type II connector. Maximum current capability is 32A, 1 Phase and 3 Phase
Wide Range Power Supply: 85V - 265V 45 to 65Hz	Silver plated contacts which make them reliable during the whole product lifetime
EVSE provides restart in the event of power grid fault	Tests performed to validate extreme conditions (freezing, sandy/muddy water)
Product according to the new IEC62752 standard including Type B RCD and residential DC current detection.	Delivered in a protective storage bag
Control box has higher water sealing protection than the standard: IP67	
Dual-thermo sensors in the grid plug provide superior overheating protection	
Short-circuit management capability (EVSE protects also on short circuit at EV) and overheating protection	
Current monitoring car-side to maximise power transmission	
Silver plated contacts which make them reliable during the whole product lifetime	
Soft grip design for user friendly ergonomics	
Temperature Range: -30° to 50°C (-40° to 70° Storage)	
Delivered in a protective storage bag	

# CHARGER SELECTION GUIDE

Everything a customer will need when ordering a new Honda Power Charger.



# REAL WORLD EXAMPLES

Honda Power Chargers feature a wealth of innovative technology, to answer all charging needs.



## 01 - JO, LUKE & ABBY

Luke uses a Honda electrified vehicle\* for his daily commute and Jo drives the primary family car, a Honda ZR-V. They want to charge the electric car every night in their car port.



### WHAT THEY NEED:

- ✓ Fast charging overnight
- ✓ Timer to start charging at off-peak rates
- ✗ No need for authentication
- ✗ No need for Smart Home functionalities

### WHY?

A basic solution for fast home charging up to 22kW three phase / 7.4kW single phase.

Includes an input switch to connect to an external timer for charging at off-peak rates.

No advanced smart home communication features are required.



**Honda Power Charger**



**Mode 3 Charging Cable**

\*EV and PHEV models only

## 02 - ROBERT

Robert needs to charge his Honda electrified vehicle\* at home and at work. He has smart home functionality, a private driveway and a solar panel system. He doesn't own another car.

### WHAT HE NEEDS:

- ✓ Fast charging
- ✓ Smart Home functionalities
- ✓ Pedestal for mounting due to having a driveway
- ✗ No need for authentication



\*EV and PHEV models only



### WHY?

A solution that offers fast home charging up to 22kW three phase / 7.4kW single phase.

The Honda Power Charger S has the capability of Smart Home integration via UDP interface for intelligent charging and connecting to Robert's solar panel system.

There is no requirement for Master-Slave functionality.

Pedestal is required as wall mounting is not possible.

## 03 - JULIA

Julia needs to charge her Honda electrified vehicle\* at home and at work. She lives in a flat with private parking beneath the building. She doesn't own another car.

### WHAT SHE NEEDS:

- ✓ Fast charging
- ✓ Contactless (RFID) card for authorisation
- ✗ No need for Smart Home functionalities



\*EV and PHEV models only



### WHY?

A solution that offers fast home charging up to 22kW three phase / 7.4kW single phase.

Need for authentication to prevent other habitants charging their electrified vehicle at her expense.

No need to connect to smart grid.

# 04 - REBECCA

Rebecca charges her company car, a Honda electrified vehicle\*, at work. When charging at home, she would like the cost of charging to be reimbursed. She lives in a house in the city centre with a private parking spot. She doesn't own another car.

## WHAT SHE NEEDS:

- ✓ Fast charging
- ✓ Contactless (RFID) card for authorisation
- ✓ Billing and advance metering capabilities
- ✓ Connection to the smart grid



Honda Power Charger S+



Mode 3 Charging Cable



## WHY?

A solution that offers fast home charging up to 22kW three phase / 7.4kW single phase.

Need for authentication via contactless (RFID) card.

Connection to the smart grid via the Modbus TCP interface.

Billing and energy monitoring capabilities as CSV export options are available for charging sessions over the last 3 months.

# 05 - SMALL BUSINESS

A small business where employees can charge their cars at work. There is private parking space and they would like five Power Chargers in total.

## WHAT THEY NEED:

- ✓ Fast charging for multiple cars
- ✓ Contactless (RFID) card for authorisation
- ✓ Billing and advance metering capabilities
- ✓ Connection to the smart grid



Honda Power Charger S+



4 X Honda Power Charger S



5 X Mode 3 Charging Cables



## WHY?

A solution that offers fast home charging up to 22kW three phase / 7.4kW single phase.

Need for authentication via contactless (RFID) card.

Connection to the smart grid of the office building via the Modbus TCP interface.

Billing and energy monitoring capabilities as CSV export options are available for charging sessions over the last 3 months.

Master-Slave functionality is required with connection to OCPP backend.

Local load management to enable reduction of power peaks.

\*EV and PHEV models only

# FREQUENTLY ASKED QUESTIONS

## NETWORKING

### Which charger is best to choose when additional chargers might be added in the future?

If further chargers are required in the future, it's best to opt for a Honda Power Charger S+, this will act as a master when Honda Power Charger S versions are added with slave functionality.

### How many slave charging stations can I connect to a master charging station?

Up to 15 slave charging stations in a local charging network can be connected to a master charging station.

### Which router/switches can be used?

All types of routers and switches can be used.

### How should the router/switches be configured?

Information about this can be found in the configuration manual of the charger.

Networking functionality depends on the charger version.

## USABILITY

### Will a 3-phase charger work when there is only a 1-phase connection available?

Yes, the Honda Power Charger can be connected to both 1-phase as 3-phase electrical installations, even if the installation has a limited available charging current. The Honda Power Charger can be configured for a maximum charging current of 32 / 25 / 20 / 16 / 13 or 10A. In case of a 3x220V connection to the grid, only a 1-phase charging setup is possible.

### When is the charged power shown on the display?

Following a charging session, the energy of the completed charging session is displayed. When starting up the device, the total energy output of the charging station is displayed.

This functionality depends on the charger version.

## LOGGING OF CHARGING SESSIONS

### How can I download the CSV log file?

Every charging session is stored for 3 months in the chargers' memory.

The log file can be downloaded via the web interface (only with the Honda Power Charger S+ and its network).