

EV FACT SHEET

Hyundai Ioniq electric



2019 Ioniq electric. Image: HMC

INTRODUCTION

The Ioniq electric is part of a three model Ioniq range that includes a BEV (Battery Electric Vehicle), PHEV (Plug-in Hybrid Electric Vehicle) and HEV (Hybrid Electric Vehicle).

Worldwide sales of the BEV and HEV began in 2016, with the PHEV released in late 2017.

Australian sales of the three vehicle range began in January 2019.

The BEV version was originally released here with a 28kWh battery, however in mid 2019 the Ioniq received a mid-model refresh, with changes including an



increased battery size to 38kWh, some cosmetic changes to the exterior – in particular a ‘dimpled’ nose treatment in line with the Kona electric - plus some

minor interior changes. The most noticeable of the interior changes was an upgrade in the size of the optional touchscreen from 200 to 250mm.

DRIVING RANGE

The Ioniq electric has a quoted range of 373 km under the old European NEDC test cycle that is still used in Australia. Real world driving range however is closer to 270km.

For instance, the Ioniq electric would, at its limit, make a round-trip from the Melbourne CBD to Cowes on Phillip Is and back – provided the heating or air conditioning were not used. For this sort of trip, a 30 min to 1hr top-up AC charge over lunch in Cowes (utilising a power point) would be recommended.

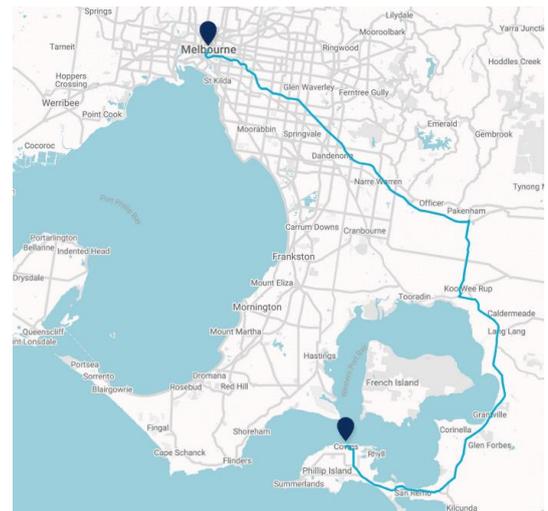


Image: Hyundai Australia website range calculator

CHARGING SPEEDS/REQUIREMENTS

Charging port

The Ioniq electric is fitted with a CCS2 socket allowing it to charge via AC as well as via CCS2 DC fast-chargers.



CCS2 charging plug and socket

Note: the Ioniq electric can be charged at any AC EVSE, however an adaptor will be needed to use EVSEs fitted with Type 1 plugs.

CHARGING SPEEDS/REQUIREMENTS (CONTINUED)

AC charging:

Although fitted with the 3 phase type 2 AC socket as part of the CCS2 system, the Ioniq electric charges using single phase AC only at a maximum of 7kW (30A).

Charging speeds vary on the capacity of the EVSE (Electric Vehicle Supply Equipment) it is connected to. Charging times are shown in table 1 below.

EVSE type:					
10 A socket	16 A 1 phase (3.6 kW)	30 A 1 phase (7 kW)	16 A 3 phase (11 kW)	32A 3 phase (22kW)	DC Fast charge (100kW)
16.5h	12h	6h	6h	6h	54m (to 80%)

Table 1: Charging times for the Ioniq electric

DC fast charging

The Ioniq electric uses the CCS2 fast-charge connector. This connector is becoming the majority type of DC fast-charge connector in both Australia and overseas.

HOME CHARGING CONSIDERATIONS

General

To get the shortest home charging time for an Ioniq electric, a 7kW AC EVSE would be needed. However, depending on your existing power supply and/or charging needs, it may only be practicable to fit a lower rated EVSE. (See notes below). Lower capacity EVSEs will increase charging times, as shown in table 1 above.

Important notes for any home EVSE installation:

1. High charging rates are generally not needed for overnight charging.
2. Homes do not normally have three phase AC connected.
3. Switchboard and/or electrical supply upgrades may be needed if your home is more than 20 years old. (See fact-sheet on 'Making your home EV ready', or read articles in:
 - (a) EV News, (AEVA newsletter) issue 231, or
 - (b) ReNew, (renew magazine) edition 143.

SPECIFICATIONS

Boot volumes in litres (1 litre = 10 x 10 x 10 cm)

- Boot: 350 L
- Rear seat folded, loading space to roof: 1,410 L

Dimensions:

- Overall length: 4,470 mm
- Overall width: 1,820 mm
- Overall height: 1,450 mm

Battery:

- 38kWh

Energy consumption: (Old NEDC/Australian test cycle)

- 117 Wh/km

Kerb weight:

- 1,420 kg

WHERE TO BUY

The Hyundai electric vehicle range are available only from 'Blue Drive' accredited Hyundai dealers. See Hyundai Australia website to find the one closest to you. (<https://www.hyundai.com.au/dealer>)

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