

# EV FACT SHEET

## Hyundai Ioniq electric



2018 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 currently has a 28kWh battery.

In January 2019, Hyundai announced that, as of the middle of 2019, the Ioniq model range will get a refresh with cosmetic changes to the exterior plus minor interior changes - including an upgrade in the size of the optional touchscreen (currently 200mm) to 250mm.



Coming Ioniq Electric grille changes Image: HMC

In addition to those changes, there is a credible rumour that the BEV battery will be increased in size to 38kWh.

The upgraded version will go on sale in Europe in the second half of 2019, however no date has been set for the release of the upgraded version in Australia. (But it should not be long after the European release date).

### DRIVING RANGE

The Ioniq electric has a quoted range of 280 km under the old European NEDC test cycle that is still used in Australia. Real world driving range however is closer to 200km.

For instance, the Ioniq electric would, at its limit, make a round-trip from the Melbourne CBD to Portsea 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 Portsea would be recommended.

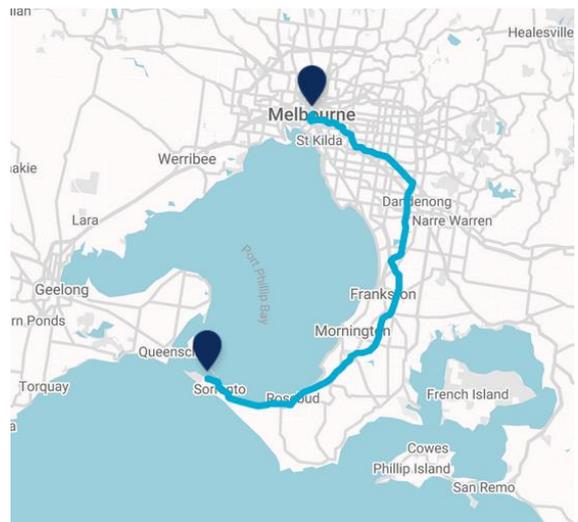


Image: Hyundai Australia website range calculator

### 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:					
15 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)
12h	6h	4.5h	N/A	N/A	23m (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:

- 28kWh

### Energy consumption: (Old NEDC/Australian test cycle)

- 115 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>)

### Note:

**AEVA, publishers of this Fact Sheet, accept no responsibility for opinions expressed, designs or ideas contained herein, or for errors factual or due to reproduction.**