



Jaguar I-Pace. Image: Jaguar

INTRODUCTION

The Jaguar I-Pace is the first all-electric vehicle from Jaguar Land Rover (JLR). In fact, the I-Pace is the first all-electric luxury vehicle from any European vehicle manufacturer. As such it has been described as the first true competitor to Tesla's Models S and X.

Announced in March 2018, deliveries started in the second half of 2018. In Australia, deliveries began at the end of 2018.

It is described as a 'crossover' SUV style vehicle, and is advertised as being as capable off-road as it is on the road. It is an all-wheel drive vehicle with two motors (one driving the front wheels, and one the rear wheels) and comes with a 90kWh battery.

The I-Pace has already received many motoring awards and accolades, including the UK Car of the Year Awards '2019 Car of the Year'. It features an excellent driving range – but one not quite equal to the Tesla models S or X. This is due to:

- having a marginally smaller battery than the Tesla Model S or X (90kWh, as compared to Tesla's 100kWh) and
- an overall vehicle energy efficiency (Wh/km) that is slightly lower than that of the Tesla drive system.

DRIVING RANGE

The I-Pace has a range of 446 km according to the Australian Green Vehicle Guide website. (<https://greenvehicleguide.gov.au>). Real world driving range however is closer to 375 km.

For instance the I-Pace would, at its limit, make a round-trip from the Melbourne CBD to Shepparton and back – provided neither the heating or air conditioning were used. For this sort of trip, a 30 min to 1hr top-up AC charge over lunch in Shepparton, or a 5 – 10 min DC fast charge along the way would be recommended.

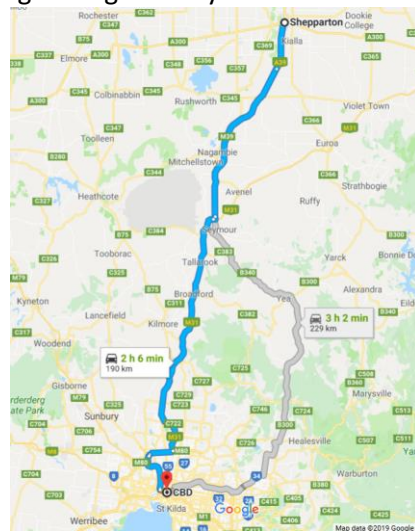


Image: Google maps

CHARGING SPEEDS/REQUIREMENTS

Charging port

The I-Pace 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 I-Pace 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 I-Pace charges using single phase AC 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)	DC Fast charge (50kW)	DC Fast charge (100kW)
42hr	26hr	12.9hr	N/A	2hr (to 80%)	1hr (to 80%)

Table 1: Charging times for the I-Pace

DC fast charging

The I-Pace 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 I-Pace, 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 edition 143. (The magazine published by Renew)

SPECIFICATIONS

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

- Boot: 638 - 656 L
- Rear seat folded: 1,435 – 1,453 L

Dimensions:

- Overall length: 4,682 mm
- Overall width (mirrors folded/mirrors out): 2,011/2,139 mm
- Overall height: 1,565 mm

Battery:

- 90kWh

Energy consumption:

- 230 Wh/km (<https://greenvehicleguide.gov.au>)

Kerb weight:

- 2,208 kg

WHERE TO BUY

The Jaguar I-Pace is available from many (but not all) Jaguar dealers. It would be best to enquire direct to your nearest dealer/s as to whether they stock it. For a list of Jaguar dealers, see:

<https://www.jaguar.com.au/retailer-locator/index.html>

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