



EV FACT SHEET

Kia EV6

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Image: Kia

INTRODUCTION

The Kia EV6 is effectively a sportier looking version of the Hyundai Ioniq 5 due to both being built on parent company Hyundai's new E-GMP (Electric Global Modular Platform). The interior to the EV6 is also slightly more 'traditional' looking than the Ioniq 5. As this platform is shared by Hyundai, Kia and Genesis, intending buyers may wish to compare the Kia EV6 with the Hyundai Ioniq 5 and Genesis GV60. Like its sibling the Ioniq 5, the EV6 also offers Vehicle to Load (V2L) functionality – meaning camping trips or family picnics into the countryside can easily be 240V powered using an adaptor plugged into the charging port.

The EV6 is built in South Korea and was released to the Australian market in early 2022.

The EV6 initially released here is the 'Long Range' version with rear wheel or all-wheel drive options. Note: the EV6 has a 77.4 kWh battery – up from 72.6 kWh in the Ioniq 5. (However, the Ioniq 5 will likely be upgraded to this larger battery later in 2022). A smaller 58 kWh 'Standard Range' battery version of the EV6 is expected to be released here at a later date.

The EV6 offers up to 11kW AC charging and an amazing 233kW maximum DC fast-charge rate. At that DC rate, it can recharge 100km of range in just over 4.5 minutes.

DRIVING RANGE

Australian test standards are currently in a state of flux, with the Green Vehicle Guide² showing range data as either the old (and highly over optimistic) NEDC test cycle figure or the newer WLTP test cycle figure. Around town, the WLTP figure is the best guide to range or, if doing outer suburban to regional driving – use the US EPA figure.

DRIVING RANGE (continued)

Variant	Testing system range estimates:		
	Australia	WLTP (Euro)	EPA (USA)
Air 2WD	Not yet rated	528	496
GT Line 2WD	Not yet rated	504	496
GT Line 4WD	Not yet rated	484	438

Table 1: Driving range estimates for the Kia EV6

Using the WLTP range – a two-wheel drive EV6 with the 77.4kWh battery should be capable of a return trip from the Melbourne GPO to Warrnambool on Victoria's south coast, provided the heating or air conditioning were not heavily used. For this sort of trip, a top-up charge at a 7kW AC wall charger (giving approx. 45km charged/h) at the Winchelsea Hotel or a 10 min DC fast-charge at Waurm Ponds or Norlane would be recommended. (For further charging options, see Plugshare.com).



Image: Google maps

CHARGING SPEEDS/REQUIREMENTS

Charging port

The EV6 is fitted with a CCS2 socket allowing it to charge via Type 2 AC chargers² as well as CCS2 DC fast-chargers.



CCS2 charging plug and socket

Notes:

- <https://www.greenvehicleguide.gov.au>
- The EV6 can be charged at any AC EVSE, however an adaptor will be needed to use the (few) remaining older EVSEs fitted with Type 1 (J1772) plugs.

CHARGING SPEEDS/REQUIREMENTS (CONTINUED)

AC charging:

Like all new EVs sold in Australia, the EV6 is fitted with a type 2 AC socket as part of the CCS2 AC/DC charge plug system.

Charging rates:

Single phase: maximum of 7.4kW (32A)

Three phase: 11kW (16A per phase)

Charging speeds and times vary on the capacity of the EVSE (Electric Vehicle Supply Equipment) it is connected to and the chosen battery size. Approximate charging times for the EV6 with the Long-Range (77.4 kWh) battery are shown in table 2 below.

(a) AC: 0 – 100% time				DC: 0 – 80% time	
10 A (power point)	15 A 1 phase (Caravan outlet)	32 A (1 phase Home EVSE)	16 or 32 A (3 phase public AC EVSE)	DC Fast charge (50kW)	DC Fast charge (350kW)
33h	21.5h	10.7h	7h	1.6h	18m

Table 2: Approximate charging times for the Kia EV6 with 77.4 kWh battery

DC fast charging:

The EV6 uses the CCS2 DC fast-charge connector and can charge at up to 233kW.

This connector is fast becoming the majority DC fast-charge connector type in both Australia and overseas.

HOME CHARGING CONSIDERATIONS

General

To get the shortest home charging time for an EV6, an 11kW three phase AC EVSE would be needed. However, depending on your existing power supply and/or charging needs, a lower rated EVSE may only be practicable, or needed. (See notes below). Lower capacity EVSEs will increase charging times, as shown in table 1 above.

The EV6 also comes with a Mode 2 portable EVSE for plugging into a 10A power point. Charging an EV6 with this EVSE will take around 33 hrs for a 0 – 100% charge.

Important notes for any 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 or business is more than 20 years old. For more information on this item - read EV Information articles at EVchoice.com.au or see:
(b) Renew magazine edition 143. (EVSE wiring)
(c) Renew magazine edition 156. (EVSE buyer's guide)

SPECIFICATIONS

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

- Seats up: 690 L (to roof)
- Seats down: 1322 L

Front boot ('froot'):

- 57L (2WD)
- 24L (2WD)

Dimensions:

- Overall length: 4680 mm
- Overall width:
 - 1890 mm (mirrors in)
 - 2152 mm (mirrors out)
- Overall height: 1545 mm

Battery:

- 77.4 kWh (Approximately 72.5 useable)

Charging:

- 1 phase AC: 7.4kW max. (45 km charged/h)
- 3 phase AC: 11kW max. (67 km charged/h)
- DC: 233kW max. (1375 km charged/h)

Charge port location:

- Right-hand rear.

Energy consumption: (WLTP)

- 165 Wh/km

Kerb weight:

- 2520 kg (AWD)

Drive configuration:

- Rear wheel drive – standard.
- All Wheel Drive (AWD) – optional.

Towing: **NB: only Long Range versions rated for towing**

- 1600 kg braked/750 kg unbraked.

Performance:

Variant	Max. Power (kW)	0 to 100km/h (Sec)
Air 2WD	168	7.3
GT Line 2WD	168	7.3
GT Line 4WD	239	5.2

IMPORTANT NOTES:

Always check the specifications with the manufacturer prior to any purchase. No responsibility accepted by AEVA or Bryce Gatton for errors factual or due to reproduction in this Fact Sheet. Whilst all efforts are made to ensure the accuracy of the material in this Fact Sheet, manufacturers regularly make changes (often unannounced) to their model ranges and specifications.

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