



EV FACT SHEET

Mercedes EQS

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Mercedes EQS. Image: Mercedes Benz

INTRODUCTION

The Mercedes EQS is classified in Australia as a 'large passenger sedan' and is regarded by Mercedes as their flagship electric vehicle. Overseas, competitors for an EQS buyer's attention would include the Tesla Model S Plaid, Lucid Air and Porsche Taycan. However, of these – only the Porsche Taycan is available here. (As at October 2022).

As a flagship vehicle, it naturally offers a very high level of equipment and driving features not seen in cheaper models. Also, like all top-end vehicles, it offers a glimpse into what the future holds as the technology introduced by these vehicles traditionally trickles down into mainstream cars over following years.

At the time of writing (Oct. 2022), only the AMG version of the EQS has been made available in Australia, however the lower spec (and slightly cheaper) RWD 450+ and AWD 580 4Matic are promised to come 'sometime soon'.

DRIVING RANGE

Australian test standards are currently in a state of flux, with the Australian GVG (Green Vehicle Guide¹) showing some vehicle driving ranges using either the old (and highly over-optimistic) figure derived using ADR 81/02 (based on the European NEDC test cycle) or the newer European WLTP test cycle figure. Unfortunately, it is also not easy to find out which test cycle was used to give a particular GVG figure! For around town, the WLTP figure is the best guide to driving range or, if doing outer suburban to regional driving – use the US EPA figure.

National testing system range estimates		
NEDC (Old Aust)	WLTP (Euro)	US EPA
Not rated	587	444

Table 1: Driving range estimates for the Mercedes EQS AMG.

DRIVING RANGE (CONTINUED)

Using the US EPA range – an AMG EQS should manage a return day-trip from the Melbourne GPO to Tidal River on Wilsons Promontory, provided the heater or air conditioner are not heavily used. Few top-up charging options are yet available on this route though (hence the conservative choice of the US EPA range), apart from the community DC charger at Cape Paterson (if detouring along the coast) or near the start/end of the journey at the Ampol 350kW charger in Dandenong. For further charging options and locations, visit:

<https://www.plugshare.com/>

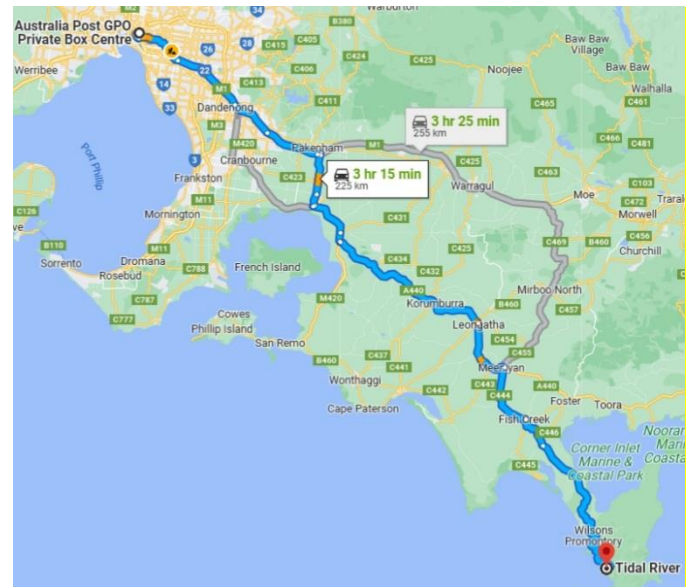


Image: Google maps

CHARGING SPEEDS/REQUIREMENTS

Charging port

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



CCS2 charging plug and socket

Notes:

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

CHARGING SPEEDS/REQUIREMENTS (CONTINUED)

AC charging:

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

Charging rates:

Single phase: maximum of 7.4 kW (32A)

Three phase:

- 11 kW (16A per phase).
- Optional 22kW AC charger also available.

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 EQS 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)	11 or 22kW (3 phase public AC EVSE)	DC Fast charge (50kW)	DC Fast charge (350kW)
60h	33.5h	17h	11kW:11h 22kW: 5.5h	2.5h	35m

Table 2: Approximate charging times for the Mercedes EQS

DC fast charging:

The EQS uses the CCS2 DC fast-charge connector and can charge at up to 200 kW.

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 the EQS, an 11 or 22kW (depending on inbuilt charger option chosen) 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 2 above.

The EQS also comes with a Mode 2 portable EVSE for use with a 10A power point. Charging an EQS with this EVSE will take around 60 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:
(a) Renew magazine edition 143. (EVSE wiring)
(b) Renew magazine edition 156. (EVSE buyer's guide)

SPECIFICATIONS

Seating capacity: 5

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

- Seats up: 610 L
- Seats down: 1770 L

'Froot' (under bonnet 'front boot'):

- No froot

Dimensions:

- Overall length: 5223 mm
- Overall width: 1926/2125 mm (mirrors folded/out)
- Overall height: 1518 mm

Battery:

- 120 kWh (Approximately 107.8 useable)

Charging:

- 1 phase AC: 7.4 kW max.
- 3 phase AC: 11 kW max. (22kW charger optional)
- DC: 200 kW max.

Charge port location:

- Rear of right-hand side.

Energy consumption:

- 230 Wh/km

Kerb weight:

- 2700 kg

Drive configuration:

- All Wheel Drive.

Towing:

- Not rated for towing.

Performance:

- Maximum power: 560 kW (combined)
- 0 – 100km/hr: 3.4 sec.

IMPORTANT NOTES:

Always check for the latest vehicle specifications with the manufacturer prior to any purchase. No responsibility accepted by AEVA or Bryce Gatton (EV Choice) 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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