



# EV FACT SHEET

## Mercedes EQS Sedan

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Mercedes EQS sedan. Image: Mercedes Benz

### INTRODUCTION

The Mercedes EQS sedan is classified by VFACTS as an Ultra-Large sedan.

Built on Mercedes' dedicated EV-only EVA platform, the Mercedes EQS is offered in both sedan and SUV form. If interested in the SUV - see separate EQS SUV Fact Sheet.

The EQS sedan is currently offered in Australia (as of December 2023) in two versions:

- EQS 450 4MATIC (all-wheel drive)
- EQS AMG 53 4MATIC (all-wheel drive)

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

### DRIVING RANGE

Currently, the official Australian ADR 81/02 test cycle is based on the outdated (and highly over-optimistic) European NEDC test cycle. However few manufacturers now give this figure for their new releases. Instead they generally quote the more achievable ranges found using the newer European WLTP test cycle.

Therefore, to avoid disappointment always check which test cycle has been used when assessing an EV for your needs. As a rough guide, NEDC is generally 30% too high, WLTP a good estimate if doing mostly urban and outer suburban driving and US EPA the better guide if doing mostly outer suburban to regional driving.

### DRIVING RANGE (continued)

| Version        | National testing system range estimates: |             |        |
|----------------|--|-------------|--------|
|                | NEDC (Aust)                              | WLTP (Euro) | US EPA |
| EQS 450 4matic | Not rated                                | 585 km      | 547 km |
| EQS AMG 53     | Not rated                                | 505 km      | 446 km |

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

Using the US EPA rating a Mercedes EQS sedan would, at its limit, make a round-trip from the Melbourne CBD to Dunkeld in Victoria's central west – provided the heating or air conditioning were not heavily used. For this sort of trip, a short DC top-up charge at one of the now many DC charger sites along the way (including the recently installed one in Dunkeld itself) would be recommended.

For further charging options and availability, see: <https://www.plugshare.com/>



Example Mercedes EQS 300 round trip range. Image: Google maps

### CHARGING SPEEDS/REQUIREMENTS

#### Charging port

The Mercedes EQS is fitted with the CCS2 socket allowing it to charge via Type 2 AC chargers<sup>1</sup> as well as CCS2 DC fast-chargers.



CCS2 charging plug and socket

#### Notes:

1. The Mercedes EQS 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 Mercedes EQS sedan is fitted with a type 2 AC socket.

### Charging rates:

**Single phase:** maximum of 7.2 kW (32A)

**Three phase:** maximum of 11 kW (32A per phase)

(Note: a 22 kW in-car charger is available as an optional extra).

Charging speeds vary on the capacity of the EVSE (Electric Vehicle Supply Equipment) the car is connected to. Approximate AC charging times for the EQS sedan are shown in table 2.

| AC: 0 – 100% time     |  |                                 |   | DC: 0 – 80% time            |                               |
|-----------------------|--|---------------------------------|---|-----------------------------|-------------------------------|
| 10 A<br>(power point) | 15 A<br>1 phase<br>(Caravan<br>outlet) | 32 A<br>(1 ph.<br>Home<br>EVSE) | 16 or 32 A<br>(3 phase public<br>AC EVSE) | DC Fast<br>charge<br>(50kW) | DC Fast<br>charge<br>(200+kW) |
| 54h                   | 30h                                    | 15h                             | 16A: 10h<br>32A: 10h                      | 1h 50m                      | 32m                           |

Table 2: Approx. charging times for the Mercedes EQS sedan

### DC fast charging

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

### V2X capability:

The Mercedes EQS does not currently offer any type of V2X functionality.

#### Notes:

V2X is the generic term covering the options of getting 230V AC power from the battery and supplying it as:

- V2L: vehicle to load (230V power available from outlet in car)
- V2H: vehicle to home (supply home via special connection)
- V2G: vehicle to grid (supply home or grid via spec. connection)

## HOME CHARGING CONSIDERATIONS

### General

To get the shortest home charging time for the EQS sedan, an 11 kW three phase AC charger would be needed. (Or a 22kW charger if the larger in-car charger is optioned).

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 2.

### 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. For more information on this item – see Fact Sheets at [EVchoice.com.au](http://EVchoice.com.au) or read articles in:
  - (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: 580 L
- Seats down: Not provided

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

- No froot

### Dimensions:

- Overall length: 5,216 mm
- Overall height: 1,512 mm
- Ground clearance: 139
- Overall width (edge of doors): 1926 mm
- Overall width (edge of mirrors): 2125 mm

### Battery:

- 120 kWh (Approximately 107.8 useable)

### Charging:

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

### Charge port location:

- Rear of right-hand side.

### Energy consumption:

- 23 kWh/100 km

### Kerb weight:

- 2,679 kg (2,658 kg for AMG)

### Drive configuration:

- All Wheel Drive. (AWD)

### Towing:

- Not rated in Australia for towing.

### Performance:

| Variant:           | Max. Power (kW) | 0 to 100km/h (Sec) |
|--------------------|-----------------|--------------------|
| EQS 450 4matic     | 265             | 5.6                |
| EQS AMG 53 4matic+ | 484             | 3.8                |

## IMPORTANT NOTE

Always check all specifications with the manufacturer prior to any purchase. No responsibility accepted by AEVA or Bryce Gatton (EVChoice) 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.