



EV FACT SHEET

Porsche Taycan

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Image: press.porsche.com

INTRODUCTION

Released here in March 2021, the Porsche Taycan is Porsche's first foray into fully electric vehicles.

Amazingly, by the end of May 2021 cumulative sales of the Taycan had already made up over 50% of all new Australian Porsche passenger car sales.

Currently (July 2021) the Taycan is offered in five four-door sedan versions¹ and three SUV versions.²

Taycan: (Added in January 2022)

2WD, 79 or 93kWh, 240/300kW motor, 5.4s 0-100km/h.

Taycan 4S:

AWD, 79 or 93kWh, 320/390kW motor, 4s 0-100km/h.

Taycan GTS: (Added in mid-2022)

AWD, 93kWh, 380/440kW motor, 3.7s 0-100km/h

Taycan Turbo:

AWD, 93kWh, 460/500kW motor, 3.2s 0-100km/h.

Taycan Turbo S:

AWD, 93kWh, 460/560kW motor, 2.8s 0-100km/h.

With its two large battery options, up to 11kW AC charging (22kW AC as an option) and a maximum DC charging capability of 225kW (for the 79kWh battery) and 270kW (for the 93kWh battery), the Taycan is capable of very fast recharging in most situations.

Notes:

1. Motor kW figures are given as: standard kW/launch control kW
2. Cross' versions are covered in a separate Fact Sheet.

DRIVING RANGE

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

| Battery | National testing system range estimates | |
|---------|---|--------|
| | WLTP (Euro) | US EPA |
| 79kWh | 406km | 363km |
| 93kWh | 460km | 435km |

Table 1: range estimates for the Taycan 4s

Using the US EPA range – a typical Taycan 4s return range for the 93kWh battery version is shown on the map below. Note that for this estimate, it is assumed that neither the heating nor air conditioning were heavily used. For this sort of trip, a 1hr top-up AC charge over lunch using a power point, or a 10 minute DC fast charge in Ballarat would be recommended.

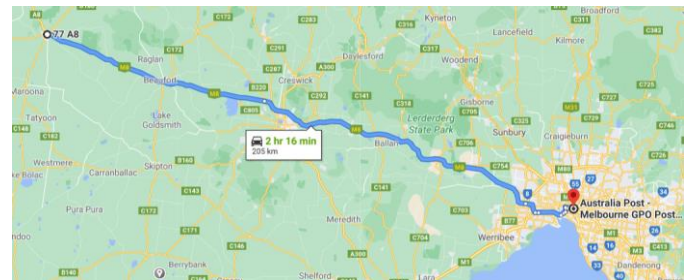


Image: Google maps

CHARGING SPEEDS/REQUIREMENTS

Charging port

The Porsche Taycan is fitted with a CCS2 socket allowing it to charge via Type 2 AC chargers³ as well as via CCS2 DC fast-chargers.



CCS2 charging plug and socket

Notes:

3. <https://www.greenvehicleguide.gov.au>
4. The Porsche Taycan 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:

The Taycan is fitted with the 3 phase capable type 2 AC socket. Using single phase AC it can charge at up to 7.2kW or at up to 11kW using a suitable three phase EVSE. The Taycan can also charge at 22kW AC if fitted with the optional 22kW on-board charger. However the EVSE would need to be 22kW capable or, if using a 32A three phase outlet, you will need to buy a 22kW capable portable charger.

Charging speeds and times vary on the capacity of the EVSE (Electric Vehicle Supply Equipment) it is connected to and the chosen battery size. Charging times for the Taycan are shown in table 1 below.

| EVSE type: AC: 0 – 100%; DC: 0 – 80% | | | | | |
|---|-----------------------------|-----------------------------|----------------------------|-------------------------------|-----|
| 15 A socket 1 phase (2.4kW) | 15 A 1 phase (3.6 kW) | 32 A 1 phase (7.2 kW) | 16 A 3 phase (11 kW) | DC Fast charge* (350kW) | |
| 79kWh | 33h | 22h | 11h | 7.2h | 13m |
| 93kWh | 39h | 26h | 13h | 9h | 15m |

Table 1: Charging times for the Porsche Taycan

* Note: to 80% charge

DC fast charging:

The Taycan uses the CCS2 DC fast-charge connector.

Note:

The CCS2 DC charge connector is fitted to all new EVs sold in Australia (except the Nissan Leaf).

HOME CHARGING CONSIDERATIONS

General

To get the shortest home charging time for a Taycan, an 11 or 22kW three phase AC EVSE would be needed, depending on the fitted on-board charger.

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 Taycan also comes with a Mode 2 portable EVSE for plugging into a 10A power point. Charging with this EVSE will take almost 40hrs to do a 0 – 100% charge.

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 - read articles in:
(a) Renew magazine edition 143. (EVSE wiring)
(b) Renew magazine edition 156. (EVSE buyer's guide)

SPECIFICATIONS

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

- Front boot: 84 L
- Rear boot: 366 L

Dimensions:

- Overall length: 4963 mm
- Overall width:
 - 1966 mm (mirrors in)
 - 2144 mm (mirrors out)
- Overall height: 1379 mm

Battery:

- 79.2 or 93.4 kWh (depending on option chosen)

Energy consumption: (Manufacturer's figure)

- 270 Wh/km for 93.4 kWh battery version

Kerb weight:

- 2,140 kg

Drive configuration:

- All wheel drive (rear wheel drive for Taycan)

Maximum power:

- 240–460kW, (300–560kW using 'boost' function) - depending on version.

0-100 km/h time:

Taycan: 5.4s

Taycan 4S: 4s

Taycan GTS: 3.7s

Taycan Turbo: 3.2s

Taycan Turbo S: 2.8s

IMPORTANT NOTES:

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