



EV FACT SHEET

Porsche Taycan

Created and written by:
Bryce Gatton
Contact:
Bryce@EVChoice.com.au



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 three four-door sedan versions, with a further 'low spec' Taycan version and three SUV versions to come soon.¹

Taycan: (not yet available)

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

Taycan 4S:

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

Taycan Turbo:

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

Taycan Turbo S:

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

With its two large battery options, up to 11kW AC charging 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. The SUV 'Cross' versions will be covered in a separate Fact Sheet when they are released here.

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 – 15 minute DC fast charge in Ballarat would be recommended.

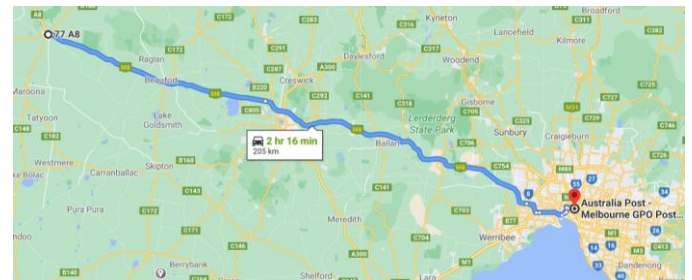


Image: Google maps

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:

2. <https://www.greenvehicleguide.gov.au>
3. 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 outlet.

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*	
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 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 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, depending on version

0-100 km/h time:

Taycan: 5.4s

Taycan 4S: 4s

Taycan Turbo: 3.2s

Taycan Turbo S: 2.8s

IMPORTANT NOTE:

Always check all 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.