# EV FACT SHEET

## Xpeng G6

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**Xpeng G6. Image: Xpeng**

## INTRODUCTION

Established in China in 2014, Xpeng's first model (the G3 Small SUV) went on sale there in 2018. The G6 first went on sale in China in mid-2024, arriving in Europe around the same time and in Australia by the end of 2024.

The G6 is classified here as a Large SUV and is offered in two variants (both rear-wheel drive): the Standard Range with a 66 kWh LFP battery and the Long Range with an 88.5 kWh NMC battery.

Xpeng are starting off here with just the G6, but have plans to expand the model range to three by the end of 2025 with the addition of the G9 Large SUV and X9 People Mover.

With its minimalist interior aesthetic, large central touchscreen and lack of physical buttons and switches, the G6 has been described by many as yet another in the growing number of potential competitors to the Tesla Model Y. However, with the G6's inclusion of a simple driver's display, stalks for the indicator and wipers PLUS Vehicle to Load (V2L) functionality – it could almost be described as picking up where Tesla has left off in terms of functions and practicality.

## 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Currently, the official Australian ADR 81/02 test cycle is based on the outdated (and highly over-optimistic) European NEDC test cycle.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 importers 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 |
| Std range | Not rated | 435 km | NA[1] |
| Long Range | Not rated | 570 km | NA[1] |

**Table 1: Driving range estimates for the Xpeng G6**

Using the WLTP range (with a roughly 10% discount for extended highway driving) a Long Range G6 should be capable of a return trip from the Melbourne GPO to Golden Beach on Victoria's southeast coast. (Assuming neither the heating nor air conditioning are heavily used).

If done as a day-trip, it would be useful to do either a ½ - 1 hour top-up charge at an AC charger or 5 to 10 min at a DCFC (DC fast-charger) at one of the expanding number of AC and DCFC sites along this route. For further charging options and availability, see: https://www.plugshare.com/


**Image: Google maps**

## CHARGING SPEEDS/REQUIREMENTS

### Charging port:

The Xpeng G6 is fitted with a CCS2 socket allowing it to charge via Type 2 AC chargers[2] as well as CCS2 DC fast-chargers.

**CCS2 charging plug and socket**

**Notes:**

1. Xpeng do not sell in the USA.
2. The Xpeng G6 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. It will also only charge at a maximum of 7.4 kW on a Type 1 plug EVSE.

## CHARGING SPEEDS/REQUIREMENTS (CONTINUED)

### AC charging:

Like all new EVs sold in Australia, the Xpeng G6 is fitted with a type 2 AC socket.

***Charging rates:***

**Single phase:** maximum of 7.2 kW (32A)
**Three phase:** 11 kW (16A per phase)

Charging speeds vary on the capacity of the EVSE (Electric Vehicle Supply Equipment) the car is connected to. Approximate AC charging times for the G6 are shown in table 2.

| AC: 0 – 100% time | | | | DC: 0 – 80% time | |
|---|---|---|---|---|---|
| 10 A (power point) | 15 A 1 phase (Caravan outlet) | 32 A (1 ph. Home EVSE) | 16 or 32 A (3 phase public AC EVSE) | DC Fast charge (50kW) | DC Fast charge (300+kW) |
| 66kWh: 30h | 22h | 11h | 16A: 7.5h<br>32A: 7.5h | 70m | 23m |
| 87.5kWh: 38h | 28h | 14h | 16A: 9.5h<br>32A: 9.5h | 90m | 23m |

**Table 2: Approx. charging times for the Xpeng G6**

### DC fast charging

Like all new BEVs on the Australian market (except the ageing Nissan Leaf), the G6 uses the CCS2 DC fast-charge connector and can charge at up to 215 kW for the Standard range and 280 kW DC for the Long range.

### V2X capability:

The G6 currently offers V2L at up to 3.3 kW.

**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 an Xpeng G6, an 11 kW (3 phase) would be needed.
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 or read articles in:
   (a) Renew magazine edition 143. (EVSE wiring)
   (b) Renew magazine edition 156. (EVSE buyer's guide)

## SPECIFICATIONS

### Seating: 5

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

- Boot - seats up: 571 L
- Boot - seat folded/to roof: 1,374 L
- Froot (front boot): NA

### Dimensions:

- Overall length: 4,753 mm
- Overall height: 1,650 mm
- Ground clearance: 153 mm
- Overall width (edge of doors): 1,920 mm
- Overall width (edge of mirrors): not provided

### Battery:

- Standard Range: 66 kWh
- Long Range: 87.5 kWh

### Energy consumption: (WLTP test cycle)

- 17.5 kWh/100km

### Kerb weight:

- 2,025 kg

### Charging:

- 1 phase AC: 7.4 kW max.
- 3 phase AC: 11 kW max.
- DC: 280 kW.

### Charge port location:

- RHS, rear (just below the rear tail-light)

### Drive configuration:

- 2WD: rear wheels driven

### Towing:

- Not rated for towing.

### Performance:

| Version | Max. Power (kW) | 0 to 100km/h (Sec) |
|---|---|---|
| Standard Range | 190 | 6.6 |
| Long Range | 210 | 6.2 |

**Spare tyre:** No

## IMPORTANT NOTE

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