



LEAF

# RANGE & CHARGING

When the first generation Nissan LEAF arrived in Australia in June 2012, the then 24kWh laminated lithium-ion battery gave owners a NEDC driving range of 170kms.

Now, the New Nissan LEAF, with its more powerful 40kWh 350V battery, has addressed some of the range anxiety by giving motorists a real world range of up to 270 kilometres per charge

In Australia, an August 2016 Electric Vehicle Report published by Zero Carbon Australia suggests that the average city-based Australian currently drives 38 kilometres a day – dropping to 34km per day in 2025 – giving drivers plenty of battery life.

According to Australia's leading charging installer, Jet Charge, their research tells them that of the Australians that own an EV, approximately 90 per cent charge at home or work.

A MODE-3 TYPE-2 EVSE cable for AC charging will be supplied to charge the New Nissan LEAF.

The charging connector angle, for these cables, has been adjusted by 15° to improve visibility and user posture for better ergonomics.

Charging status is supplied by indicator lights on the dash. This is positioned to be visible from both inside and outside the vehicle.

Once the charge connector lock is on, the number of lights indicate the charge process.

The new Nissan LEAF can be charged in one of three ways.

Using a Mode 2 cable, this allows LEAF owners to charge via a standard 15A 240V wall socket. Alternatively, using a Mode 3 cable, with dedicated EVSE plug, enables connection to an AC charger.

Mode 4 tethered to a CHAdeMO DC charger

is designed for quick charging via a direct current. These chargers are most commonly seen along highways.

### **Charging Times**

There are three levels of charging times for the new Nissan LEAF.

The first, via the three-pin 15A 240V Mode 2 wall socket, is best suited for those that have light driving habits and recharges the battery from the time the LEAF tells you that battery life is low, to full charge in approximately 24 hours.

A second level charge - from a Mode 3 connection - takes approximately 7.5 hours (from empty warning to full). Currently, from a global perspective, Nissan sees about 70 per cent of its customers installing a garage wallbox. This set and forget system can charge the LEAF overnight ready for the day ahead - much like a mobile phone.

Finally, the 50kWh CHAdeMO fast charging point has the ability to accomplish a charge from empty warning to 80 per cent within approximately 60 minutes.

**Important:** Charging times for Australian-spec vehicles will be confirmed when vehicles arrive here. Charging times are dependent on charging conditions, including charger type and its condition, battery temperature, as well as ambient temperatures at point of use.

### **V2X**

The Nissan LEAF is one of the only EVs that comes capable of Bi-directional charging.

This means that not only is the LEAF able to take on and store charge, but it is also able to provide charge back from the car to the home, business or electricity grid.

