# 2011-2015 Used Nissan Leaf Features
Scott Wilson, Electric Vehicle Association of Greater Washington DC (evadc.org)

<table>
<thead>
<tr>
<th>Year</th>
<th>Trim</th>
<th>Quick Charge¹</th>
<th>Level 2 (kW)</th>
<th>Heat</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>R=R=Resistive HP=heat pump</td>
</tr>
<tr>
<td>2011</td>
<td>Both trims had cold weather package option²</td>
<td>No Option</td>
<td>3.6</td>
<td>3.6</td>
</tr>
<tr>
<td>2012</td>
<td>SV</td>
<td>Option</td>
<td>3.6</td>
<td>R</td>
</tr>
<tr>
<td></td>
<td>SL</td>
<td>Yes</td>
<td>3.6</td>
<td>R</td>
</tr>
<tr>
<td>2013</td>
<td>S</td>
<td>Option Option³</td>
<td>3.6, 6.6 with QC⁴</td>
<td>R</td>
</tr>
<tr>
<td></td>
<td>SV</td>
<td>Yes</td>
<td>6.6</td>
<td>HP</td>
</tr>
<tr>
<td></td>
<td>SL</td>
<td>Yes</td>
<td>6.6</td>
<td>HP</td>
</tr>
<tr>
<td>2014</td>
<td>S</td>
<td>Option Option³</td>
<td>3.6, 6.6 with QC⁴</td>
<td>R</td>
</tr>
<tr>
<td></td>
<td>SV</td>
<td>Yes</td>
<td>6.6</td>
<td>HP</td>
</tr>
<tr>
<td></td>
<td>SL</td>
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</tr>
<tr>
<td>2015</td>
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<td>Option Option³</td>
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<td>HP</td>
</tr>
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<td></td>
<td>SL</td>
<td>Yes</td>
<td>6.6</td>
<td>HP</td>
</tr>
</tbody>
</table>

If shopping online for used Nissan Leafs, you often only have photos, since the owner doesn’t know if it has Quick Charging (QC), the heater type or the Level 2 power. This guide may help you determine those features.

### 2011, 2012 Battery
See last page of this guide for additional details. In order to tell if the battery is still under warranty, you need to give the VIN to a Nissan Dealer and have them look it up (over the phone?). This is because some original owners opted out of warranty coverage, which would transfer the opt-out to future owners of that particular vehicle. (This is uncommon)

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¹ If you only have an under-hood picture available, you can identify an installed QC option by three orange cables on the front of the motor stack (see pictures).
² Cold Weather package includes heated battery, steering wheel, front and rear seats. **Standard on all years and trims 2012-onwards**
³ For **2013-2015 SV trim**, cars with optional QC installed can be identified by LED headlights. Cars without QC can be identified by halogen headlights
⁴ For **2013-2015 S trim**, cars with optional QC installed also have 6.6 kW charger installed.
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2011/2012 Year Model

DC Fast Charge

Level 1/2
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2011/2012 Year Model

No DC Fast Charge

Insideevs.com
2011-2015 Used Nissan Leaf Features
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2013-2015 Year Model

DC Fast Charge

Level 1/2

Insideevs.com
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2013-2015 Year Model

No DC Fast Charge

No DC Fast Charge

DC Fast Charge
DC Fast Charge port and J1772 L1/L2 port under front charge door. Push or pull to the left of the steering wheel.
How to tell if you have a 6.6 kW charger:

2013-2015 charger size (3.6 kW or 6.6 kW) shown by sticker on passenger side power module. “6.6 kVA” means 6.6 kW.

If you have a VIN, you can decode it at http://www.vindecoderz.com/EN/Nissan/LEAF
Or at several similar sites
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Battery History: (http://insideevs.com/used-nissan-leaf-buying-guide/)

2011 Year Models

- The battery pack may or may not have heater elements to keep it from freezing. This was only on the “cold weather” package offered at the time.
- Prone to battery degradation in HOT climates (see more info on this below)

2012 Year Models

- Should all have the battery heater element as this was made standard from this point onwards.
- Prone to battery degradation in HOT climates (see more info on this below)

2013 Year Models

- Uses an all-new battery pack from previous years.
- Anecdotal evidence tends to show that degradation is not as big of a problem in this year model, although Nissan never officially announced any changes related to heat tolerance.

2014 Year Models

- Some 2014’s may have the same battery as 2013 models.
- Some 2014’s actually have the “lizard” battery that Nissan claims is heat tolerant and will not degrade in hot climates.

2015 Year Models.

- Should all include the “lizard” battery and should be very reliable.
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How to interpret battery bars and the battery warranty. First, turn the car on and look at the narrow battery capacity indicator on the right side of the display.

![Li-ion battery capacity level gauge](image)

- 12 bars – range is about 80-90 miles
- 11 bars – range is about 73-82 miles
- 10 bars – range is about 67-75 miles
- 9 bars – range is about 60-67 miles
- 8 bars – battery qualifies for Nissan Battery Warranty, if the car is under 60k miles or less than 5 years old, whichever comes first, unless prior owner opted out. If the prior owner opted-out, the opt-out transfers with the car and it will never qualify for the warranty (Note: this is uncommon). Must have Nissan dealer lookup the VIN to know for sure.

Be suspicious of a 2011 or 2012 with 12 bars, if the car came from the southwest. Verify that the battery was replaced.

See also [http://www.electricvehiclewiki.com/Battery_Capacity_Loss](http://www.electricvehiclewiki.com/Battery_Capacity_Loss)

You can see one Leaf drivers battery replacement experience here: https://www.youtube.com/watch?v=HEaxYWW6Zm8

If out of warranty, you can still get a replacement battery at a Nissan dealer for $5500 plus parts, labor and financing of around $765, so discount the purchase price accordingly. Doing so will give you an essentially new car. For an example, see https://www.greencarreports.com/news/1111264_new-life-for-old-nissan-leaf-electric-car-battery-replacement-and-what-it-took

Lots of info - Google “used nissan leaf guide”
http://insideevs.com/used-nissan-leaf-buying-guide/
http://ecomento.com/2015/03/19/buyers-guide-used-nissan-leaf/
http://www.greencarreports.com/news/1098554_should-i-buy-a-used-nissan-leaf-or-another-electric-car
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