

## 25 kWh battery performance test

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This latest video by a prominent automobile vlogger tests the real-world driving range of the Tata Punch EV. It marks the debut of Tata's electric vehicle dedicated pure EV architecture known as acti.ev. This platform boasts unique advantages when compared to adapted platforms from internal combustion engine (ICE) models, distinguishing it from counterparts like the Nexon EV, Tiago EV, and Tigor EV, which share platforms with their traditional combustion engine counterparts. Let us take a look at what actual range you can expect in everyday conditions.

The Punch EV has transitioned to a dedicated pure EV architecture, presenting buyers with a choice between two battery pack options - 25 kWh and 35 kWh. The smaller battery pack yields a range of 315 km (MIDC), while the larger one extends the range to an impressive 421 km on a single charge. These batteries offer two e-Drive options - a 60 kW (80 hp) PMSM AC with 114 Nm and a 90 kW (120 hp) PMSM AC with 190 Nm peak power and torque. This configuration results in a 0-100 km/h acceleration time of 9.5 seconds and a top speed of 140 km/h.

Both the battery pack and electric motor possess an IP67 rating, ensuring resistance to water and dust. To enhance buyer confidence, there is an 8-year or 1,60,000 km warranty. In the Long Range (LP) version, buyers can choose between a 3.3 kW and a 7.2 kW AC fast charger, along with a 50 kW DC fast charger. Utilizing the latter, the EV can be charged from 10% to 80% in a swift 56 minutes.

We must keep in mind that the companies test the range of EVs under ideal conditions. Depending on the climatic environments, driving mannerisms and drive modes, the final real-world range will alter. Still, to expect a range of around 350 km in real-world conditions with the larger battery pack is decent. Still, you will need to plan your trips in advance to ensure that you don't get stranded on the road. With time, the charging infrastructure is being developed to tackle this issue too.

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