



Common RAM RPMiniBus EV Questions/Answers

How do you heat the van interior, and do you offer a specific cold weather package/auxiliary heater?

Suggest ordering a standalone heat pump system. Range will be reduced.

If optimal heating is required, a standalone Webasto diesel heater can be installed to maximize range and heating, at a reduced percentage of meeting sustainability goals.

We have van pre-heating capability while plugged in?

Vehicle heat system can be operated while plugged into a charge to precondition battery and interior climate to help maximize drive efficiency.

Expected efficiency in mi/kWh on a 20F day and 70F day

At 20F loss of approximately 17%-20% with 110-mile range. At 70F you're operating at 100% = 130 to 160 mile range dependent upon city versus highway driving.

Cold-Weather (less than 30-degree F) battery performance:

Studies of current EV's in the marketplace conclude that under 20F results in loss of ranges from 20 percent plus or minus 5 percent.

Our telematics system allows the following:

Allows remote monitoring of various data ranges, specifically GPS Location, range in remaining miles, state of charge percentage, gear status, charge port status, kW/h added at last charge, charge limit percentage adjustment, charge rate adjustment.

DC Fast Charge rate options:

The 400V battery requires approximately 6 - 7 hours to charge with a standard J1772 Level 2 charger at 11 kW/h. With alternative charging ports and connector options, the vehicle is capable of DC fast charging with a CCS1 in 30 minutes or less at 350 kW/h from 10% to 80% charge.

AC level 2 J1772 charge rate and chargers:

Our vehicles can charge from any industry standard chargers.

Does the vehicle support vehicle-to-grid integration?

Not standard. If desired, we can provide a 220v power source that can be used to power the grid or charge another vehicle as an option.

How is the battery pack temperature controlled and brought to optimal charging and/or driving temperature?

The thermal management system is liquid cooled and/or warmed to maintain the battery to operate at an optimal temperature of 90 degrees. The motor is oil cooled with heat exchanger that is electronically controlled, also managed at approximately 90 degrees.

How do we help protect battery packs and power cables from corrosion/damage?

Batteries are encased to protect from corrosion/damage, similar to an OEM Tier 1 battery. Cables are Tier 1 OEM type shielded high voltage cables (orange color).

What is the Expected life of the battery?

In years: 10 years, 200,000 miles

In full depletion charge cycles: 1500

At what % of original capacity is the battery considered end of life?

70% of original capacity would be considered end of life

What is the actual battery capacity and usable capacity?

80 kw battery with 74 usable kw. Power is reduced at 10% battery capacity with limp home being implemented at 5%. Can still be driven at 0% at reduced speed and torque.

Who is our battery supplier?

Panasonic/Maxwell

Additional equipment options or add-on packages for our vehicles:

roof mounted solar with 1.4 kw output, optional 220v power supply output, optional Webasto diesel heater, optional rear auxiliary heat pump.