

Hybrid Vehicle (HV) Battery Pack and Auxiliary Battery

The NX300h features a high voltage Hybrid Vehicle (HV) battery pack that contains sealed Nickel Metal Hydride (NiMH) battery modules.

HV Battery Pack

- The HV battery pack is enclosed in a metal case and is rigidly mounted to the cabin area floor pan cross member under the second row rear seats. The metal case is isolated from high voltage and concealed by fabric covers in the cabin area.
- The HV battery pack consists of 34 low voltage (7.2 Volt) NiMH battery modules connected in series to produce approximately 244.8 Volts. Each NiMH battery module is non-spillable and sealed in a metal case.
- The electrolyte used in the NiMH battery module is an alkaline mixture of potassium and sodium hydroxide. The electrolyte is absorbed into the battery cell plates and will not normally leak, even in a collision.

HV Battery Pack	
Battery pack voltage	244.8 V
Number of NiMH battery modules in the pack	34
NiMH battery module voltage	7.2 V
NiMH battery module dimensions	11.2 x 4.7 x 0.8 in (284 x 119 x 20 mm)
NiMH module weight	2.2 lbs (1.0 kg)
NiMH battery pack dimensions	31.6 x 12.7 x 43 in (802 x 322 x 1092 mm)
NiMH battery pack weight	118.8 lbs (54 kg)

Components Powered by the HV Battery Pack

- Front Electric Motor
- Rear Electric Motor
- Power Cables
- A/C Compressor
- Electric Generator
- Inverter/Converter
 - DC-DC Converter for 12 Volt Auxiliary Battery