



# Solar impulse 2 batteries

Which battery is used for Solar Impulse 2?

As it turns out, those batteries - with very high energy density - were supplied by Kokam. According to Kokam, their Ultra High Energy Lithium Nickel Manganese Cobalt (NMC) Oxide (Ultra High Energy NMC) technology offers 260 Wh/kg. Here is some data we thought interesting on the battery application for the Solar Impulse 2:

What is Solar Impulse 2?

For those unfamiliar, the Solar Impulse 2 is an electric aircraft, which recently completed a round-the-world flight (recap/videos of accomplishment here ); however during the night without the aid of the solar for power, the flight continued with the aid of on board batteries.

How hot are Solar Impulse 2 batteries?

As a result, the Solar Impulse 2's Ultra High Energy NMC batteries were heated to a temperature close to 50 °C for an extended period of time--a temperature higher than the design specifications.

How much does a Solar Impulse 2 battery weigh?

Here is some data we thought interesting on the battery application for the Solar Impulse 2: total battery weight 633 kg (1,395 lb)- as a comparison the original Model S 85 kWh had a pack weighing in at ~544 kg (1,199 lbs) batteries are installed in each motor housing (17.5 HP or about 13 kW and total 50 kW output)

Did Solar Impulse 2 fly without batteries?

Solar Impulse 2's recently completed flight around the world may not have occurred without a very special set of batteries.

What are the different types of Solar Impulse batteries?

Solar Impulse I used batteries by Kokam (Korea) with an energy density of 243 Wh/kg. Solar Impulse II, on the other hand, uses batteries by Air Energy (Germany) with an energy density of 260 Wh/kg.

New batteries were installed for the rest of the journey. As it turned out, the original batteries were undamaged by the heat and the engineers determined that Solar Impulse 2 would have been safe to fly without replacing ...

Kokam presents its high energy dense lithium-ion batteries, which were used in the Solar Impulse 2 electric aircraft, equipped with 154 kWh pack.

The Solar Impulse 2 --the solar airplane that recently completed a round-the-world flight-- used batteries from Kokam, based on that company's advanced Ultra High Energy Lithium Nickel Manganese Cobalt (NMC) Oxide ...



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The Solar Impulse uses four 38.5-kilowatt hour (kWh) Kokam Ultra High Energy NMC battery packs with 150 Ah cells, totaling 154 kWh of energy storage.

A second aircraft, completed in 2014 and named Solar Impulse 2, carries more solar cells and more powerful motors, among other improvements. On 9 March 2015, Piccard and Borschberg ...

Kokam Co., Ltd, has announced that the Solar Impulse 2 used batteries based on its advanced Ultra High Energy Lithium Nickel Manganese Cobalt (NMC) Oxide (Ultra High Energy NMC) ...

Over the course of the 43,000 kilometres Solar Impulse traveled, much of the 11,000 kWh of electricity generated by the plane's 17,000+ solar cells was stored in these ...

Kokam Co., Ltd. revealed that the Solar Impulse 2 used batteries based on its advanced ultra-high energy Lithium Nickel Manganese ...

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Solar Impulse 2's recently completed flight around the world may not have occurred without a very special set of batteries. The energy storage solution used consisted of ...

Solar Impulse 2's recently completed flight around the world may not have occurred without a very special set of batteries. The energy storage solution used consisted of Kokam Co., Ltd's Ultra High Energy NMC batteries; ...

This solar-powered aircraft Solar Impulse uses four main lithium-ion batteries, each containing 70 lithium-polymer cells. It does not use a commodity cell like the 18650 that ...

Over the course of the 43,000 kilometres Solar Impulse traveled, much of the 11,000 kWh of electricity generated by the plane's 17,000+ solar cells was stored in these battery packs; primarily to enable flight at night.

The Solar Impulse 2 --the solar airplane that recently completed a round-the-world flight-- used batteries from Kokam, based on that company's advanced Ultra High ...

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