



Tdk claims insane energy density in solid-state battery breakthrough

TDK's new battery, unveiled on 17 June, 2024, has an energy density of 1,000 Wh/L - 100-times higher than conventional solid-state battery (TDK) Your support helps us to tell the story [Read more](#)

TDK, an Apple supplier based in Tokyo, Japan has announced a breakthrough for its solid-state battery technology. The company says it has managed to develop a new material that will allow these ...

Enlarge / TDK says its new ceramic materials for batteries will improve the performance of small consumer electronics devices such as smartwatches and wireless headphones [AsiaVision via Gettyreader comments 25](#) Japan's TDK is claiming a breakthrough in materials used in its small solid-state batteries, with the Apple supplier predicting significant ...

TDK Corporation (TSE:6762) successfully developed a material for CeraCharge, a next-generation solid-state battery with an energy density of 1,000 Wh/L, approximately 100 ...

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TDK Corporation successfully developed a material for CeraCharge, a next-generation solid-state battery with an energy density of 1,000 Wh/L, approximately 100 times greater than the energy density of TDK's conventional solid-state battery. TDK's technology is aimed at a solution that can be utilized in various wearable devices, such as ...

The new material provides an energy density - the amount that can be squeezed into a given space - of 1,000 watt-hours per litre, which is about 100 times greater than TDK's current battery...

TDK, the largest maker of smartphone batteries in the world, said Monday that it has successfully developed a material that could be used in a new battery with "significantly higher energy density" than its existing cells. Energy density refers to how much energy a battery can store relative to its size or weight.

The material will be used in TDK's CeraCharge solid-state battery, which it says has an energy density of 1,000 watt-hours per liter -- approximately 100 times more than its conventional...

It states the new models will have an energy density of 1,000 watt-hours per litre, a unit used to measure a battery's energy content in relation to its volume. TDK noted the material will provide a significant boost to its existing mass-produced solid-state batteries due to the use of "oxide-based solid electrolyte and lithium alloy anodes".

The immediate goal appears to be for smaller devices. TDK Corporation (TSE:6762) successfully developed a



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material for CeraCharge, a next-generation solid-state battery with an energy density of 1,000 Wh/L, approximately 100 times greater than the energy density of TDK's conventional solid-state battery.

The new material provides an energy density -- the amount that can be squeezed into a given space -- of 1,000 watt-hours per litre, which is about 100 times greater than TDK's ...

The company says it has managed to develop a new material that will allow these batteries to attain "an energy density of 1,000 Wh/L, approximately 100 times greater than the ...

Receive exclusive personalised event invitations, carefully-curated offers and promotions from The Financial Times. Japan's TDK is claiming a breakthrough in materials used in its small solid-state batteries, with the Apple supplier predicting significant performance increases for devices from wireless headphones to smartwatches.

TDK Corporation in Japan, a component supplier to companies like Apple, says it's increased its solid-state battery energy output at 1,000 watt-hours per liter, which is 100 times ...

Japans TDK, an Apple and Tesla supplier, announced a breakthrough in solid-state battery materials, offering an energy density of 1,000 watt-hours per liter-100 times more than its current production. Initially targeting small devices, TDK aims to commercialize this technology soon. Challenges remain for larger applications, including electric vehicles.

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The Tokyo-based Apple supplier said the material for its small solid-state batteries had an estimated energy density of 1,000 Watt hours per liter, or Wh/l, which is approximately 100 times greater than the energy density of TDK's conventional mass-produced solid-state battery.

Apple's battery supplier TDK claims its new material achieves an energy density of 1,000 watt-hours per litre, a substantial improvement compared to its current mass-produced batteries ... Apple's battery supplier TDK claims breakthrough in solid-state batteries, will bring major perf boost. Whatsapp Facebook Twitter ... Apple's battery ...

These new solid-state batteries offer 100 times more energy density, revolutionizing wearables and small devices with safer and longer-lasting power ... says it's increased its solid-state ...

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"TDK will strive to develop the battery cells and package structure design and advance toward mass production, targeting the development of its new product, the solid-state battery," the ...

The new battery's energy density is 1,000 Wh/L, approximately 100 times greater than that of conventional solid-state batteries used by TDK. The new battery is made of lithium alloy anode and oxide-based solid electrolyte, as opposed to liquid electrolyte used in traditional lithium-ion batteries.

The new material boasts an energy density of 1,000 watt-hours per liter, approximately 100 times greater than TDK's current mass-produced batteries. By comparison, solid-state batteries offered by ...

Apple supplier TDK claims solid-state battery breakthrough on x ... The new material provides an energy density -- the amount that can be squeezed into a given space -- of 1,000 watt-hours per ...

TDK claims insane energy density in solid state battery breakthrough (arstechnica) 15 points by bparsons 1 hour ago | hide ... > The ceramic material used by TDK means that larger-sized batteries would be more fragile, meaning the technical challenge of making batteries for cars or even smartphones will not be surmounted in the foreseeable ...

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