

What is atom power's digital solid-state circuit breaker technology?

Atom Power's state-of-the-art digital solid-state circuit breaker technology provides superior protection, visibility, and control compared to traditional mechanical circuit breakers.

What is a solid-state circuit breaker?

With a solid-state circuit breaker, on/off control is intrinsic to the device. Our patented solid-state digital circuit breaker uses a semiconductor to interrupt current flow instead of a mechanical device. Once metering and communications are added, you have the perfect mechanism to enable edge-of-the-grid distributed energy resource management.

How does a solid-state breaker work?

The ABB solid-state breaker concept works by replacing the traditional moving parts of an electro-mechanical circuit breaker with power electronics and advanced software algorithms. These algorithms control the power and can interrupt extreme currents faster than ever before.

Will a solid state circuit breaker disrupt the world of circuit breakers?

The design is largely unchanged since it was originally dreamed up by Thomas Edison back in the 1800s. Ryan Kennedy, the CEO of Atom Power, believes his solid state circuit breaker is primed to disrupt not just the world of circuit breakers, but also deliver realtime energy monitoring, control, with a host of software to tune it.

What is an atom switch?

At its core, the Atom Switch represents a major leap in technology from physical, mechanical circuit breakers to solid state breakers powered by semiconductors and PCBs. Most importantly, this allows for rapid switching at up to 3,000 times faster than traditional mechanical breakers.

How did atom power revolutionize the circuit breaker?

Atom Power revolutionized the circuit breaker by creating the world's first commercial UL-listed digital solid-state circuit breaker. We're creating a new standard for the electrified world that is safer, faster, more efficient, and more reliable. With a solid-state circuit breaker, on/off control is intrinsic to the device.

Traditional mechanical circuit breakers have very low contact losses but are incapable of switching as quickly as solid -state circuit breakers. On the other hand, solid-state ...

Atom EV Level 2 chargers are powered by our patented, software-defined solid-state digital circuit breaker, centralizing charging at the enclosure and providing the highest levels of reliability, scalability, and security.

Solid-State Circuit Breaker Inquiry Please Note: We are not currently selling our Atom Power next-generation solid-state circuit breakers, but we are starting to share more about them. ...

Founded in 2014, our innovative co-founders set out to create a new standard for the electrified world by creating a transformational solution to protect, monitor, & control electrical systems. ...

U.S. patent application number 16/898538 was filed with the patent office on 2020-12-17 for solid-state circuit breaker with galvanic isolation. This patent application is currently ...

Atom Power's digital circuit breaker uses solid-state semiconductors and software to manage the flow of power, and consolidates the functionality of many disaggregated ...

Today, Atom Power's patented solid-state circuit breaker technology provides an advanced solution for powering EVs, centralizing charging and circuit protection at the enclosure-level to supply ...

In Atom Power's case, the solid-state digital circuit breaker is programmed to become the "EV smart charger," and the charging station itself is a simple terminal block and inexpensive.

Therefore, SiC devices are obvious choices for solid state circuit breakers. Figure 3 depicts how Si, SiC and GaN correspond with each other across the various operating frequencies and output powers. Construction of ...

Atom Power, inventor of a digital circuit breaker, introduced the second generation of its technology. The Generation 2 Atom Switch is now UL Listed to UL 489I -- the standard listing for solid-state circuit breakers. In May ...

Atom Power is an innovative company providing transformative grid technology that delivers unparalleled protection, visibility, and control at the point of consumption. The patented Atom ...

In 2016, I had just moved to Charlotte, was in a rut professionally, and looking to make a change. That summer, I was first introduced to my guest, Atom Power CEO Ryan Kennedy. They had prototyped a solid-state circuit ...

Atom Power is the first company to use Wide Band Gap (WBG) semiconductors in commercially available solid state circuit breakers, and the only company to manufacture SiC ...

Source: Atom Power. Solid-state circuit breakers. After co-founding Atom Power in 2014, Kennedy and his team set out to commercialize solid-state circuit breaker technology. It was certainly not a new idea; it's been ...

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Atom Power's digital solid-state circuit breaker, the Atom Switch, was recently the first of its kind listed to

UL 489I, cementing the company as a leader in solid-state circuit protection.

The humble circuit breaker is one of the most ubiquitous & overlooked building blocks of the electricity grid. I talk with an inventor/entrepreneur who has developed a solid-state digital circuit breaker ...

Atom Power announced its innovative digital circuit breaker technology is now UL-listed. The company says this is the first time in the history of commercial power distribution that a digital solid-state circuit breaker has ...

Re: Solid state circuit breaker by Atom Power #171; Reply #13 on: May 24, 2019, 03:03:43 am #187; Maybe it's a hybrid with a semiconductor stage to limit current and a mechanical disconnect to make it stay disconnected.

Atom Power, manufacturer of a UL-listed solid-state digital circuit breaker, has launched a new EV charging solution called PURPL, which charges vehicles directly from the circuit breaker, and incorporates energy ...

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