

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.

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.

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.

Can atom power disrupt the world of circuit breakers?

Three of the four major manufacturers of circuit breakers - ABB, Siemens, and Eaton - are all early investors in Atom Power. That speaks volumes about the potential to disrupt the antiquated world of circuit breakers and power distribution. Ryan Kennedy isn't shy when it comes to the potential of his Atom Switches.

What is a solid state atom switch?

Solid state also means the Atom Switch does not have any moving parts. That means less maintenance (by a large margin) and a longer life. These are all wins for commercial and industrial applications where circuit breakers must perform flawlessly over decades to support the business. The AtomOS provides remote control over each Atom Switch.

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 circuit breakers can switch quickly but, until now, have come with high conduction losses that result in significant wasted energy that must be dissipated in the form of ...

Atom Power invented the first and only UL-listed commercial solid-state digital circuit breaker. It's dubbed as the world's safest and fastest for smart power and more sustainable energy ...

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. ... Intelligent Protection ...

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 ...

Technology leader in pulsed power switches and solid-state circuit breakers Astrol is a Switzerland based innovator and manufacturer of state-of-the-art power control and switching solutions. We design and produce electronic parts for technical high demanding industries such as medical, energy distribution and pulsed power applications since 1996.

Atom Power, manufacturer of the first and only UL-listed solid-state digital circuit breaker, launched PURPL, Atom Power's EV charging solution that charges vehicles directly from the circuit breaker and incorporates novel ...

ABB has developed a revolutionary solid-state circuit breaker concept, which meets the highest demands of next-generation power applications as they enter the digital age. The ground-breaking low voltage circuit breaker concept will ...

Atom Power, Inc. USING SOLID-STATE CIRCUIT BREAKERS TO REVOLUTIONIZE POWER DISTRIBUTION. ... Solid-state Circuit Breaker Intelligent & Self-aware Dynamic Safer than anything in the world Load output Line input Electronic ink display Electronic OPEN/CLOSE Air Gap Reset Button Manual air gap open

Fig.2:- Block diagram of the solid-state current limiter [1]. The major component of solid-state current limiters and circuit breakers is the high voltage solid-state switch consisting of power semiconductor devices with fast current turn-off ...

solid state circuit breaker will switch in a matter of microsec-onds, as opposed to milliseconds or even seconds for a mechanical version. New solid state products currently on the market utilize the many benefits associated with power MOSFETs to deliver a product far superior to earlier silicon versions. Power

Our product portfolio for solid-state circuit breakers ranges from power switches and corresponding gate drivers to sensors, microcontrollers, memories, communication and security devices. This supports seamless system integration in combination with wide power range and feature scaling capability.

Amber Semiconductor, Inc. (AmberSemi(TM)), a fabless semiconductor company that is developing the next generation of power conversion, control and protection solutions, announced today that it will ...

Faster, better, safer, smarter - our solid state miniature circuit breakers enables software control of electricity and create the spark for an entirely new shift in energy. For many. Electricity. You've had a good run. And sparked many ...

(Solid-State Circuit Breakers,SSCBs),?,SSCBs:??? ...

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.

Atom's digital circuit breakers are controlled and monitored on a smartphone or computer--users can virtually see the electrical panel and each circuit breaker on their screens, allowing them to remotely turn devices on and off, and even ...

Introducing SACE Infinitus, the world's first fully IEC 60947-2 certified Solid State Circuit Breaker (SSCB), designed for supreme resilience and optimal efficiency in direct current power systems. With a frame size being able to handle up to ...

Solid-state Circuit Breaker The Atom Switch is the first ever commercially available solid-state circuit breaker, the fastest circuit breaker in the world, the only circuit breaker that ...

Atom Power provides reliable, scalable, and secure Level 2 and DC Fast Charging EV solutions, Switchgear, and integrated, robust software to ensure successful electrification of your fleet, business, government, destination, and more. ... Traditional mechanical circuit breakers. Digital solid-state serves as both circuit protection & EVSE ...

Specialties Solid-state Power Distribution, Intelligent electrical panelboards, Solid-state circuit breakers, Power distribution software, Power Management, EV Charging, Smart Grid, GHG Reduction ...

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