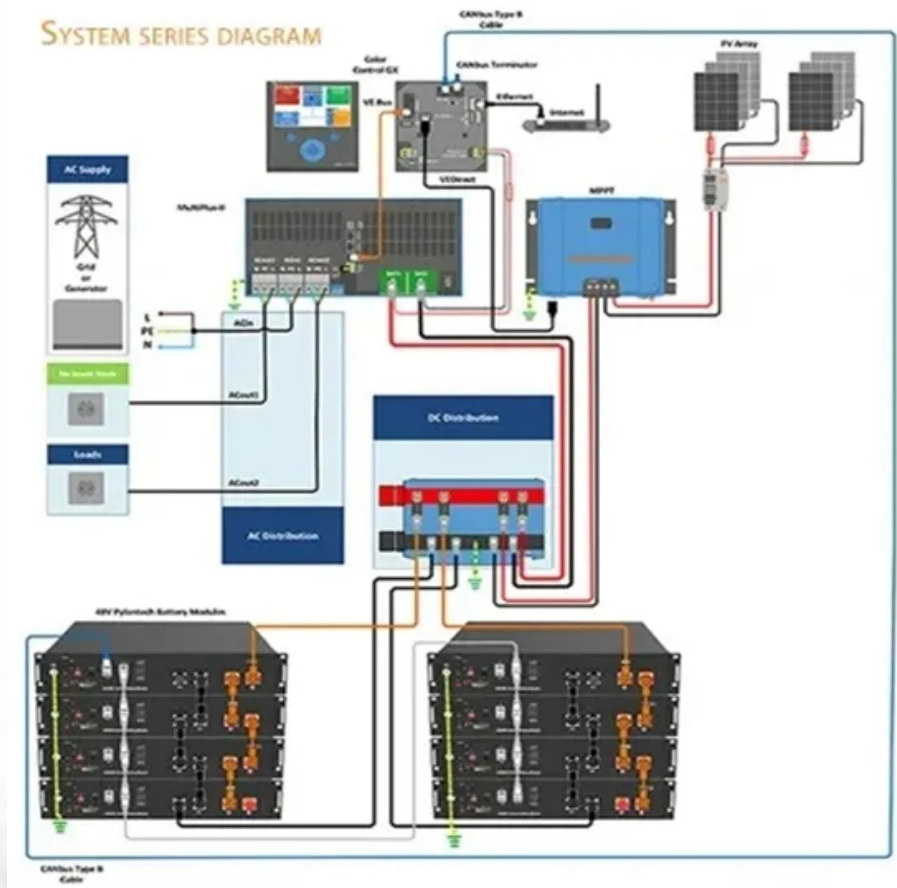


SolarTech Power Solutions

Uninterrupted power supply safety protection for communication base stations



Overview

What is a power supply and backup battery system?

Overall, the power supply and backup battery system provide both AC line power and DC battery backup power to ensure the base station remains powered when AC line power is disabled. Figure 4 shows the circuit blocks of the power supply and backup battery system. Figure 4. Power supply and backup battery system block diagram.

Why should a 5G base station be protected?

In addition to potential damage originating on the power line, the base stations must be sturdy to environmental electrical hazards such as lightning and electrostatic discharge (ESD) strikes. Design engineers need to protect their 5G base stations from these electrical hazards to prevent damage to the bases station and avoid critical downtime.

How do you protect a power input circuit?

On the input of the power input circuit, one solution is to use a fuse for overcurrent protection. Additionally, for this DC circuit, you could also consider using a fast-acting fuse. Surface mount fast-acting versions are available for space-saving applications.

What is a surface mount fast-acting power supply?

Surface mount fast-acting versions are available for space-saving applications. A metal oxide varistor (MOV) and a gas discharge tube in series could also help protect the front-end of the power input circuit from transients that have passed through the main AC power supply, the power supply, and backup battery circuit.

Uninterrupted power supply safety protection for communication ba



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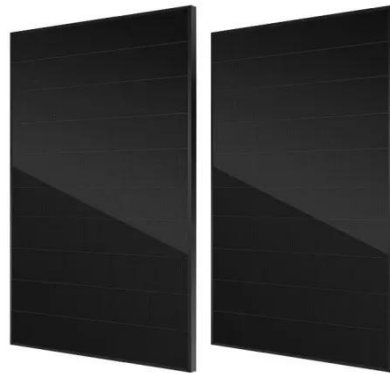


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