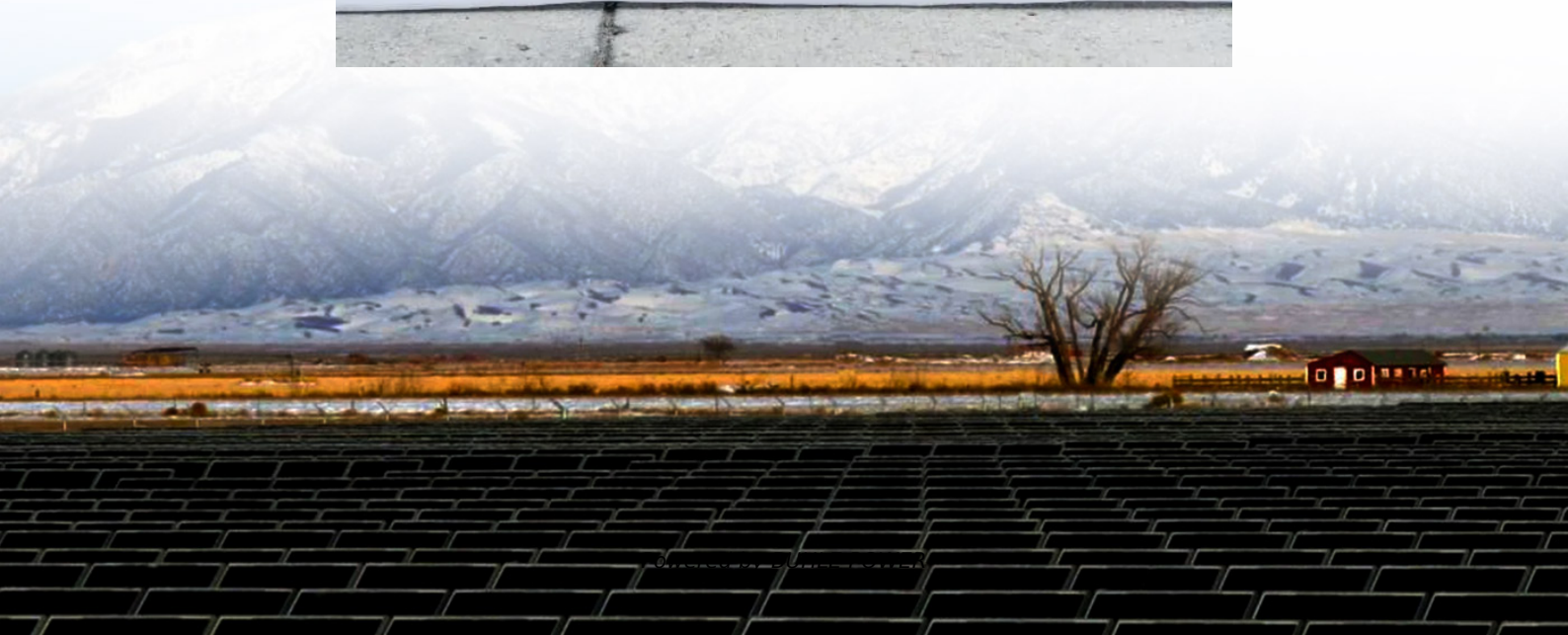


Lithium-ion battery cabinet detection principle





Overview

As its name implies – "aspirated" smoke and off-gas detection systems use an "aspirator" mounted in a detector unit. The detector connects to a sample pipe network mounted within the area or object being.

Why is early detection important for lithium-ion battery energy storage systems?

Early detection allows mitigation steps to be carried out long before a potentially disastrous event, such as lithium-ion battery. With 5 times faster detection capability, Siemens fire detection products contribute to stationary lithium-ion battery energy storage systems manageable risk.

How does the FDA241 detect lithium ion electrolyte vapor?

The FDA241 detects lithium-ion electrolyte vapor (also known as lithium-ion 'off-gas' particles) early and reliably thanks to its patented dual-wavelength optical detection technology. The FDA241 is the ideal solution for early detection of electrical fires.

Can a lithium-ion battery energy storage system detect a fire?

Since December 2019, Siemens has been offering a VdS-certified fire detection concept for stationary lithium-ion battery energy storage systems.* Through Siemens research with multiple lithium-ion battery manufacturers, the FDA unit has proven to detect a pending battery fire event up to 5 times faster than competitive detection technologies.

What is a lithium-ion battery off-gas detector?

The term "OGP" refers to detection of small off-gas particles produced in the earliest stages of lithium-ion battery overheating and those commonly found in flaming fires. The FDA241 unit offers proven reliability in early detection of lithium-ion battery Off-Gas particles during the "pre-thermal runaway" period of battery failure.



Lithium-ion battery cabinet detection principle



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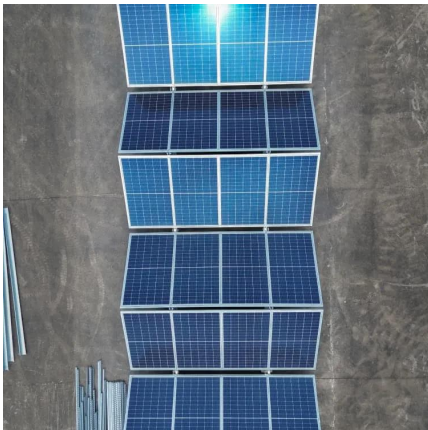
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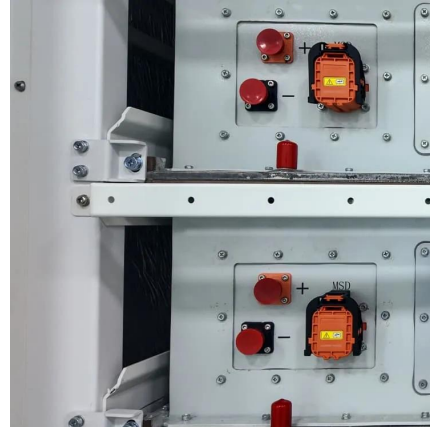
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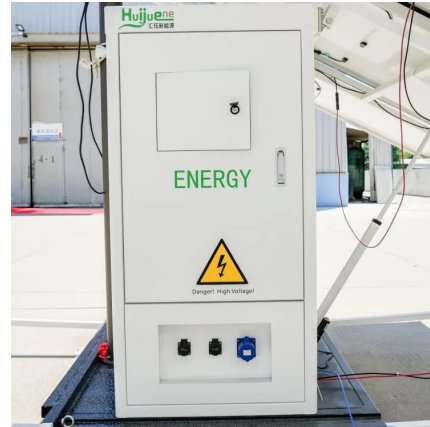
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