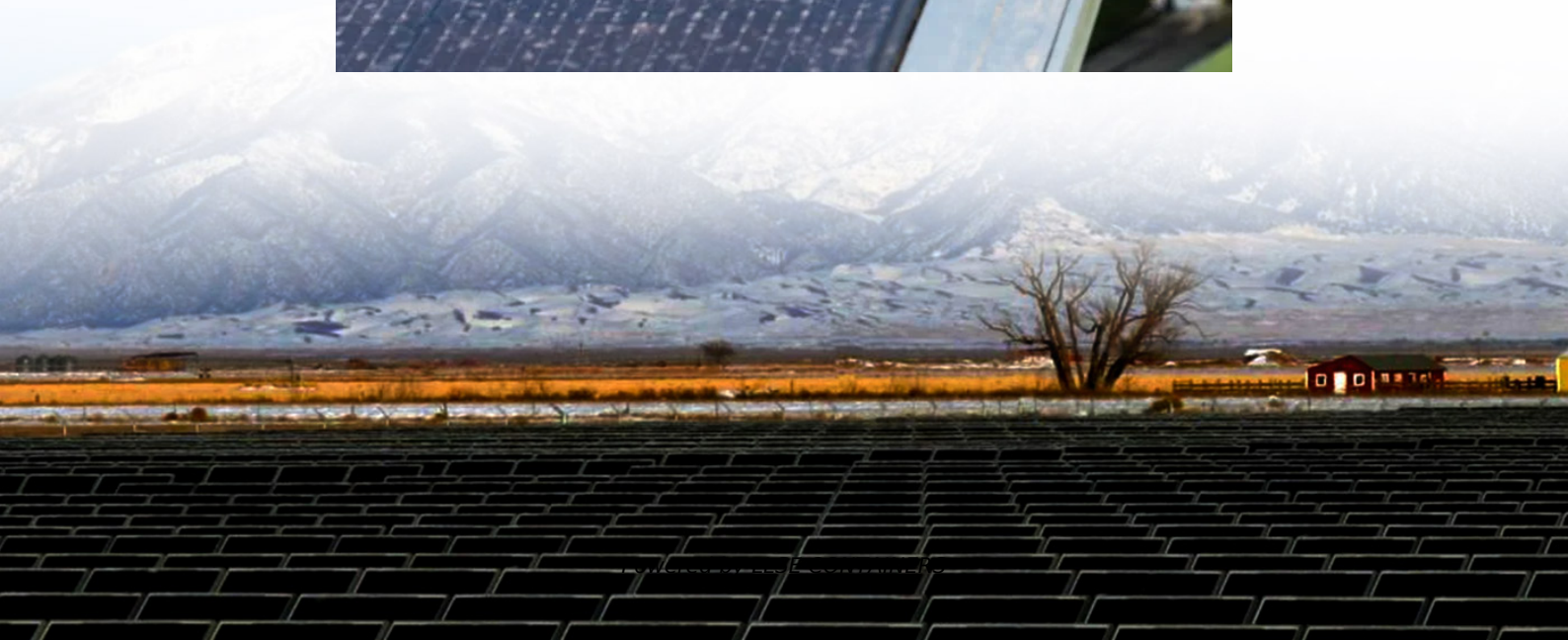


Differential protection of solar power station generator





Overview

What is differential protection in a generator?

Differential protection is primarily used to clear any internal faults in the stator winding of a generator or alternator. The differential protection is provided in the generator by using longitudinal differential relay.

What is differential protection?

Differential Protection Definition: Differential protection is a method used to clear internal faults in the stator winding of a generator or alternator. **Current Transformers:** Two sets of current transformers (CTs) are used, one on the line side and one on the neutral side, and their characteristics must match to avoid relay malfunctions.

Which current transformer should be used for differential protection?

It is also always preferable to use all current transformers for differential protection of generators or alternators should be of same characteristics. But practically there may be some difference in characteristics of the current transformers installed at line side to those installed in neutral side of the generator.

What is generator protection scheme?

Generator protection scheme. At substations, the lines, interconnecting transformers, and reactors constitute major static power components crucial for system operation. The transformer, depicted in Fig. 6, is a localized element featuring two sets of delicate windings that may directly or indirectly experience fault currents.



Differential protection of solar power station generator



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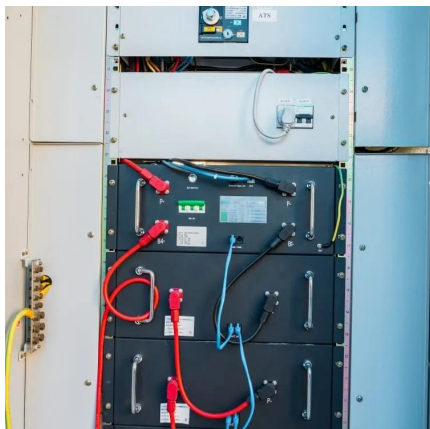
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