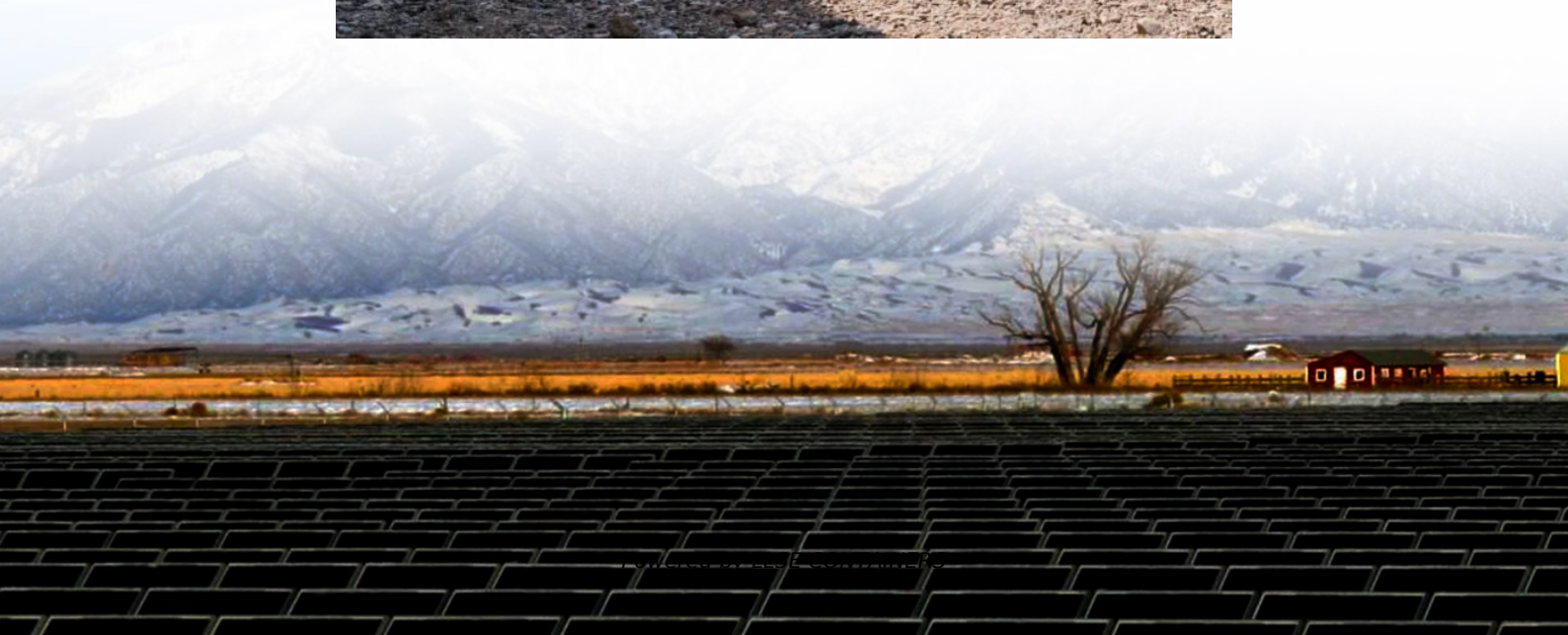


Wide voltage universal inverter





Overview

What is mvcu output voltage?

The output voltage of the MVCU is the differential voltage between the absolute value of the output voltage of the inverter and the voltage of the PV array under SC, so it sustains the minimum power under SC and can operate in a wide input-voltage range. The inverter is a single-stage system, so efficiency of the system is high.

When should a voltage-source inverter be shut down?

Learn more. Voltage-source inverters are widely used in solar applications. However, when the voltage of the PV array is less than the peak output voltage of the inverter under shading condition (SC), they should be shut down.

Should a boost converter be inserted between PV array and PV inverter?

Therefore, a boost converter should be inserted between the PV array and the PV inverter (PVI) to boost the voltage of the PV array under SC, but it sustains the full power of the PVI under normal conditions (NCs). To address the problem, an improved transformerless PVI with a minimum power processing unit (MPPU) is proposed.

How efficient is a PVI inverter?

The inverter is a single-stage system, so efficiency of the system is high. The operating principle of the system is illustrated. A cooperative control strategy of the PVI is depicted.



Wide voltage universal inverter

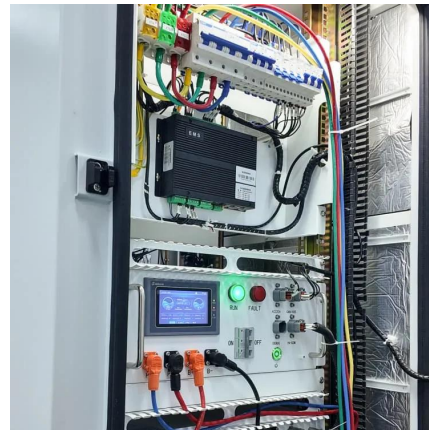


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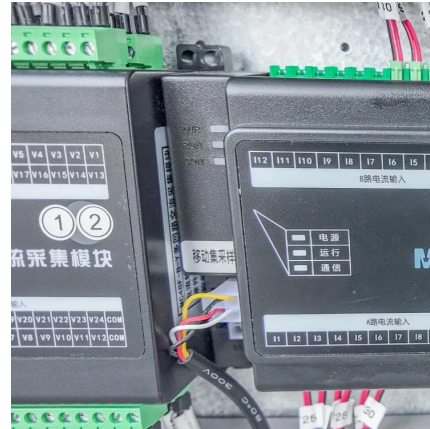


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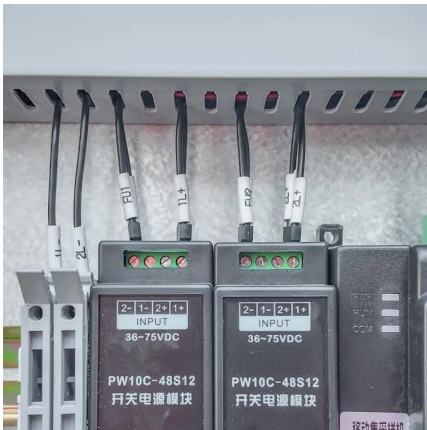
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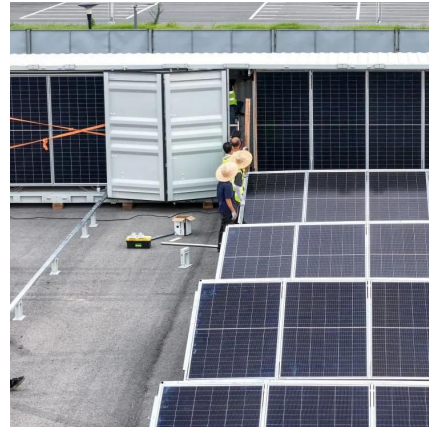
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