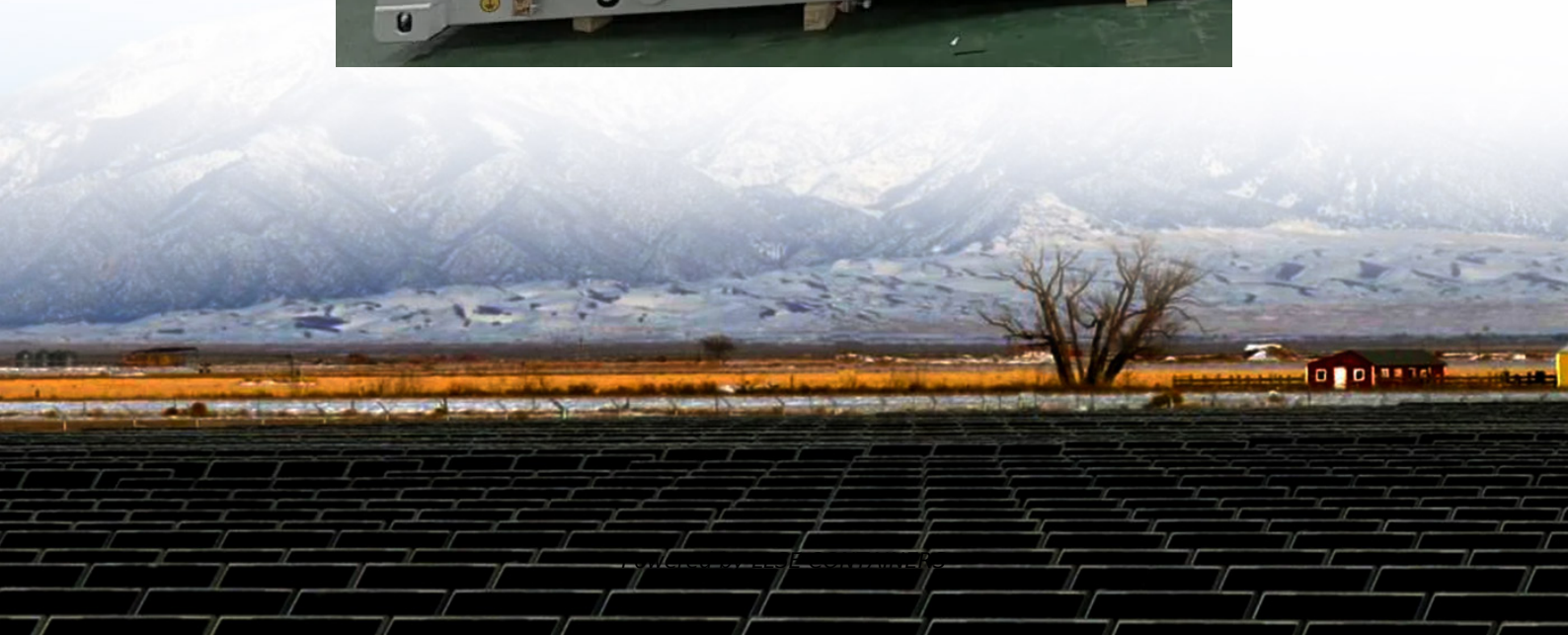


Energy storage temperature control system enterprise





Overview

What is container energy storage temperature control system?

The proposed container energy storage temperature control system integrates the vapor compression refrigeration cycle, the vapor pump heat pipe cycle and the low condensing temperature heat pump cycle, adopts variable frequency, variable volume and variable pressure ratio compressor, and the system is simple and reliable in mode switching.

Do cooling and heating conditions affect energy storage temperature control systems?

An energy storage temperature control system is proposed. The effect of different cooling and heating conditions on the proposed system was investigated. An experimental rig was constructed and the results were compared to a conventional temperature control system.

How much energy does a temperature control system use?

The average energy consumption of the proposed temperature control system accounts for about 3.5 % of the energy storage, in which the average energy consumption of charging mode and discharge mode accounts for 1.06 %, and the energy consumption of standby mode accounts for 1.41 %. Fig. 7.

What is the COP of a container energy storage temperature control system?

It is found that the COP of the proposed temperature control system reaches 3.3. With the decrease of outdoor temperature, the COP of the proposed container energy storage temperature control system gradually increases, and the COP difference with conventional air conditioning gradually increases.



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