



LLSE CONTAINERS

What is the humidity requirement for energy storage containers





Overview

It is recommended that the ESS container used in this study be operated at 35~75% humidity and 18~28 °C. Can a container-type ESS control temperature and humidity?

In this study, temperature and humidity monitoring and management issues were addressed for a container-type ESS by building sensor-based monitoring and control systems. Furthermore, a rule-based air conditioner control algorithm was proposed for temperature and humidity management.

What is energy storage container?

SCU uses standard battery modules, PCS modules, BMS, EMS, and other systems to form standard containers to build large-scale grid-side energy storage projects.

What temperature should the ESS container be operated at?

It is recommended that the ESS container used in this study be operated at 35~75% humidity and 18~28 °C. Figure 2 shows an example of the relative humidity, temperature of the container, and battery cell temperature during summer. In this example, the set temperature of the air conditioner inside the ESS container was set to 21 °C.

What is the indoor temperature and humidity in ESS container operation?

During the ESS container operation period, the indoor temperature was maintained in the range of 19.3-21.3 °C throughout; however, the indoor humidity was in the range of 50.1-72%. The outdoor temperature and humidity were in the ranges of 26.1-29.9 °C and 56.7-82.8%, respectively. Figure 10.



What is the humidity requirement for energy storage containers



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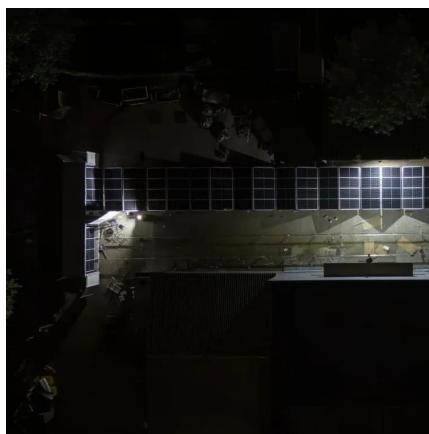
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