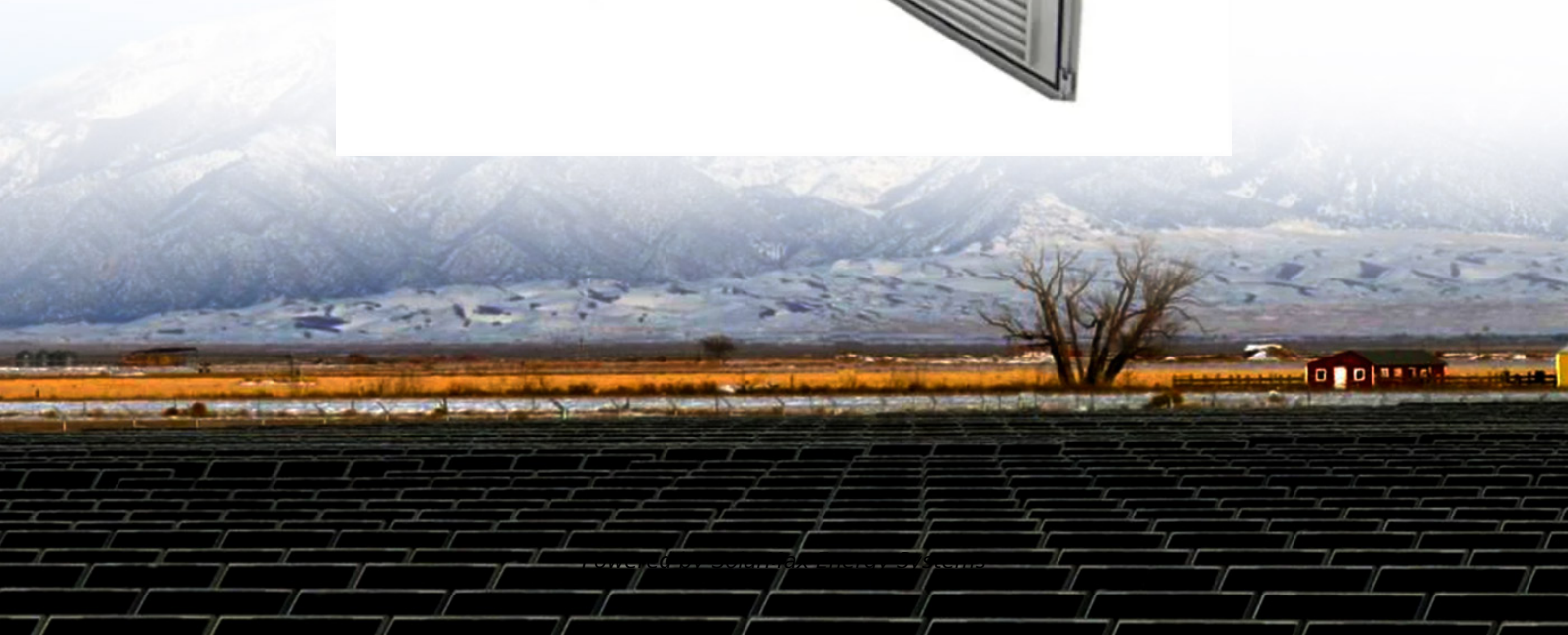


SolarMax Energy Systems

Humidity requirements for base station room energy management system



Overview

Does Standard 55 require a minimum humidity level?

The Standard requires that systems designed to control humidity must be able to maintain a dew-point temperature of 16.8°C (62.2°F). There are no established lower humidity limits for thermal comfort; consequently, Standard 55 does not specify a minimum humidity level.

What is the recommended humidity level for occupied spaces?

ASHRAE Standard 62.1-2016, "Ventilation for Acceptable Indoor Air Quality", plus ASHRAE BOD approved addenda requires that relative humidity levels be designed to be limited to 65% or less for mechanical systems with dehumidification capability.

What are the requirements for a stationary battery ventilation system?

Ventilation systems for stationary batteries must address human health and safety, fire safety, equipment reliability and safety, as well as human comfort. The ventilation system must prevent the accumulation of hydrogen pockets greater than 1% concentration.

Does Standard 62.1 have humidity limitations?

For other mechanical system types or where spaces are not served by mechanical systems, Standard 62.1 has no humidity limitations.

How should a battery room be designed?

Battery rooms shall be designed with an adequate exhaust system which provides for continuous ventilation of the battery room to prohibit the build-up of potentially explosive hydrogen gas. During normal operations, off gassing of the batteries is relatively small.

What is the minimum illumination level in a battery room?

Illuminance levels in the battery room shall be designed to meet IESNA Lighting Handbook recommendations with a minimum illumination level of 300 lux (30 fc). The lighting design shall consider the type of battery rack and the physical battery configuration to ensure that all points of connection, maintenance and testing are adequately illuminated.

Humidity requirements for base station room energy management s



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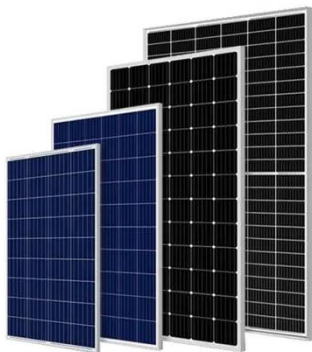
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