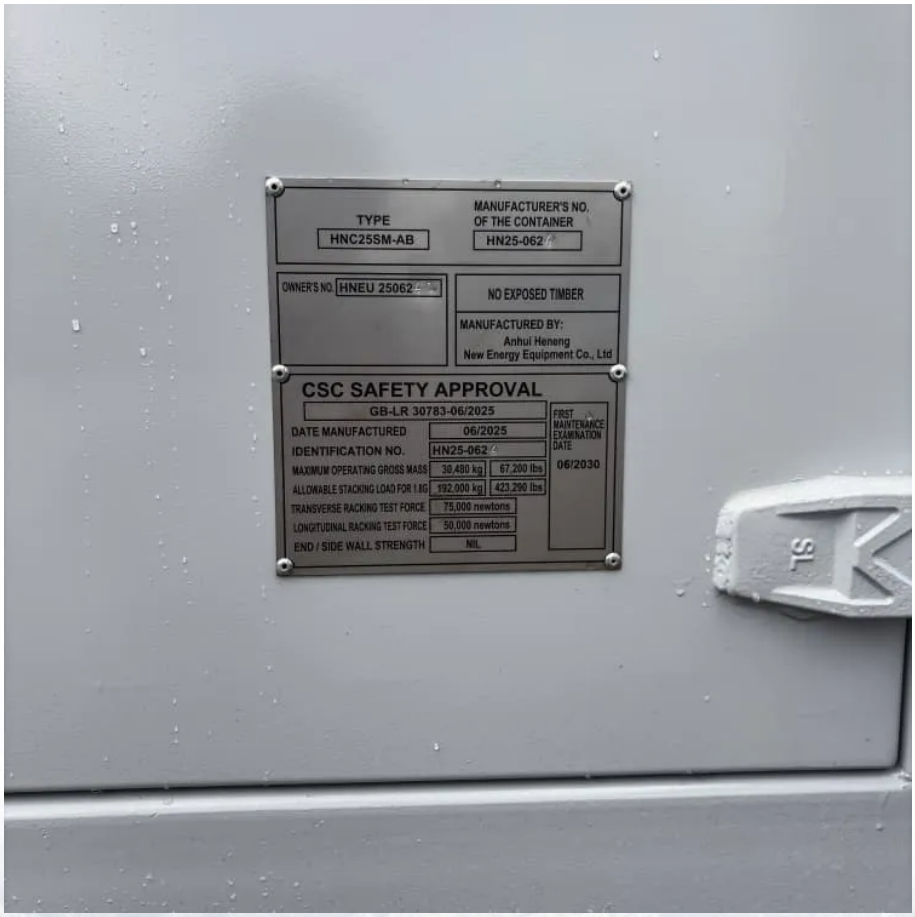
WALMER ENERGY

Solar container communication station inverter and online intelligent reflective surface



Overview

Are reconfigurable intelligent surfaces a promising technology for next-generation wireless networks?

This paradigm shift has led to the emergence of Reconfigurable Intelligent Surfaces (RIS) as a promising technology for next-generation wireless networks.

What is intelligent reflective surface (IRS)?

The RIS or intelligent reflective surface (IRS) is simply a surface with real-time reconfigurable and controllable scattering properties (polarization, amplitude, and time delay) to improve the performance of the communication system .

Is a transmitter-receiver communication aided by a large intelligent surface?

In , the authors considered a transmitter-receiver communication aided by a sizeable intelligent surface (LIS) with many reflecting elements. Due to the massive number of reflecting surfaces, CSI estimation and beam training are challenging. Moreover, such a set-up's computational complexity and power consumption are exceptionally high.

What is reconfigurable intelligent surface?

In parallel, reconfigurable intelligent surface (RIS), gaining increasing attention recently, has been viewed as a promising technique in future wireless networks [7, 8, 9]. An RIS is a two-dimensional (2D) meta-surface containing numerous passive and low-cost reflecting elements that enable tuning the phase shift of the incident signal.

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