



BUHLE POWER

Differential communication information base station





Overview

Which differentially fed antenna is suitable for the current base station?

differential feed are unipolar, which is not suitable for the current base station. Then, the broad band differentially fed antennas with dual polarizations are proposed in [17-24]. In [17-24], the planar antenna enhances the bandwidth by introducing four pairs of parasitic elements. The antenna has a high isolation of 45 dB, but the height is not specified.

What is a composite decoupling structure for dual-band dual-polarized base station array?

A composite decoupling structure is proposed to ameliorate the mutual couplings for dual-band dual-polarized base station array. The structure consists of dual-band decoupling surface combined with staggered dielectric surface and several meandered line resonators embedded on the ground.

What is a differentially fed antenna?

An H-slot and a differentially fed structure are used to adjust impedance matching. The designed antenna has a high isolation of more than 43 dB and an impedance bandwidth of 20.3% (3.14-3.81 GHz). A novel antenna in [1] adopts a cross-feeding structure and a parasitic element to achieve an impedance bandwidth of 52% (1).

What is a frequency selective surface based dual-band polarized antenna?

This paper presents a frequency selective surface (FSS) based dual-band dual-polarized antenna with compact size and high gain. The proposed dual-band antenna consists of a low band (LB) and a high band (HB) antenna elements. The HB element is coaxially located under the radiator of the LB element, minimizing the overall size.



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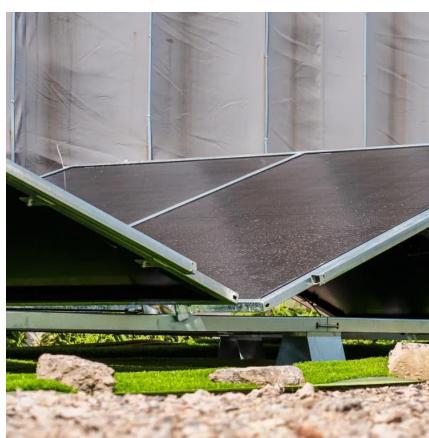


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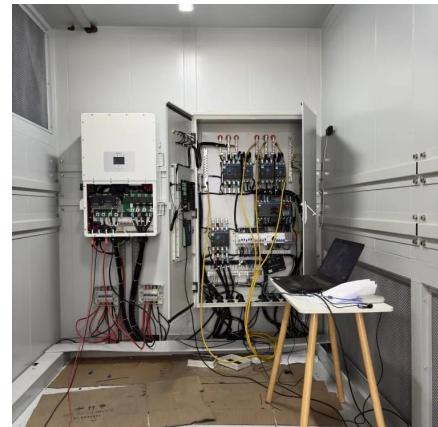
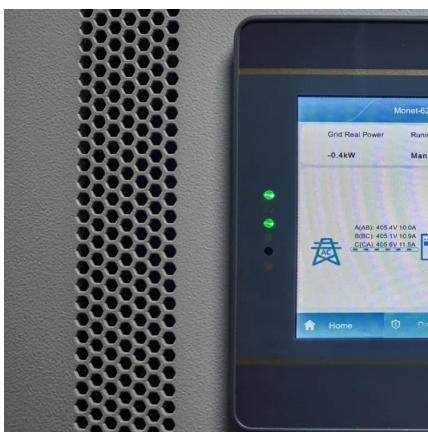
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1. INTRODUCTION Today, the communication environment is becoming more and more complex, and signal will inevitably produce attenuation or distortion in the transmission ...



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