

## SolarInvert Energy Solutions

# Base station and terminal communication

*LiFePO<sub>4</sub> Battery, safety*

*Wide temperature: -20~55°C*

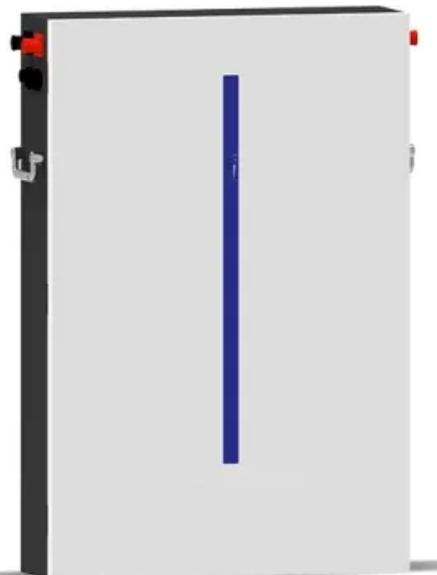
*Modular design, easy to expand*

*Wall-Mounted&Floor-Mounted*

*Intelligent BMS*

*Cycle Life: ≥ 6000*

*Warranty: 10 years*



## Overview

---

What is a base station?

What is Base Station?

A base station represents an access point for a wireless device to communicate within its coverage area. It usually connects the device to other networks or devices through a dedicated high bandwidth wire of fiber optic connection. Base stations typically have a transceiver, capable of sending and receiving wireless signals;.

What is a base station in a wireless network?

At the heart of wireless communication networks are base stations, which act as the gateway between wireless devices and the network infrastructure. Base stations are responsible for transmitting and receiving data to and from wireless devices, as well as managing network resources and ensuring reliable and efficient communication.

Why is a base station important?

As wireless communication continues to evolve, base stations will play a crucial role in supporting new technologies and services, such as 5G, IoT, and smart cities. A base station (BS) is a key component of modern wireless communication networks, providing the interface between wireless devices and the network infrastructure.

How does a wireless device communicate with a base station?

When a wireless device, such as a mobile phone, communicates with a base station, the device sends a signal to the base station, which converts the signal into digital form and sends it to the network. Similarly, when the network sends data to the device, the base station converts the digital data into a wireless signal that the device can receive.

Why are base stations important in cellular communication?

Base stations are important in the cellular communication as it facilitate seamless communication between mobile devices and the network communication. The demand for efficient data transmission are increased as we are advancing towards new technologies such as 5G and other data intensive applications.

What are the processing units of a base station?

The processing units of a base station are responsible for processing and managing wireless data. These units may include microprocessors, memory units, and specialized processing units, such as digital signal processors (DSPs), that are designed to handle the complex signal processing requirements of wireless communication.

## Base station and terminal communication

---



### WO/2025/173639 TERMINAL, BASE STATION, AND COMMUNICATION ...

Jun 2, 2025 · This terminal is provided with: a control circuit that, in data collection of an artificial intelligence model for predicting channel state information, determines control information ...

[Get Started](#)

### TERMINAL, WIRELESS COMMUNICATION METHOD, ...

Sep 13, 2023 · [0001] The present disclosure relates to a terminal, a radio communication method, and a base station in next-generation mobile communication systems.

[Get Started](#)

### GRADE A BATTERY

LiFePO<sub>4</sub> battery will not burn when overcharged/over discharged, overcurrent or short circuit and can withstand high temperatures without decomposition.



### US2024033364A1

the terminal 20 may perform communications via a primary cell of the base station 10 and a primary secondary cell group cell (PSCell: Primary SCG Cell) of another base station 10 using ...

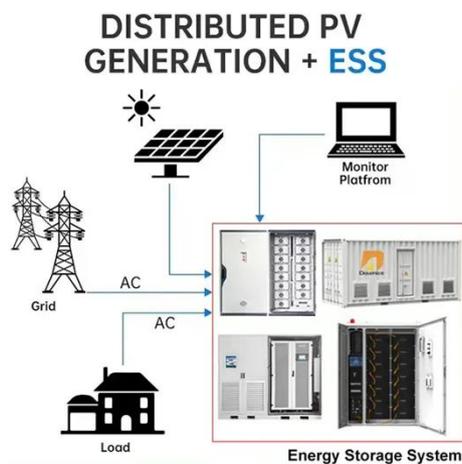
[Get Started](#)



## US20220361165A1

At a base station, a control unit selects one combination from multiple combinations of parameters regarding uplink control channel (PUCCH) resources. A transmission unit indicates a terminal ...

[Get Started](#)



## US20250184992A1

A terminal includes: a reception unit configured to receive a plurality of downlink shared channels that are scheduled in multiple carriers by a single control information from a base station: a ...

[Get Started](#)

## Communication method, base station, and terminal device

The communication method comprises: a target base station receives a first request message from a terminal device, the first request message comprising first identifier information, and the ...

[Get Started](#)



## WO2020012736A1

the non-limiting embodiment of the present disclosure contributes to providing a base station, a terminal, and a communication method that can

appropriately apply precoding to a PDCCH.

[Get Started](#)

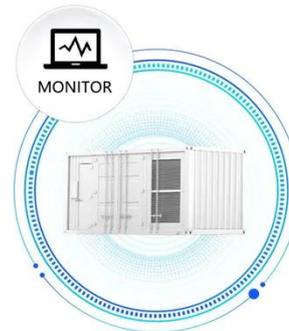


## US20230422268A1

An aspect of the present disclosure is to provide a base station, a terminal, and a communication system each enabling an efficient use of resources even when the TTI length is shortened.

[Get Started](#)

SUPPORT REAL-TIME ONLINE MONITORING OF SYSTEM STATUS



## WO2018025493A1

In downlink communication in mobile communication, generally, a base station (sometimes called "eNB" or "gNB") is a terminal (sometimes called "UE (User Equipment) ") for a terminal, The ...

[Get Started](#)

## US20220053469A1

A base station is disclosed that enables an efficient use of resources even when a TTI length is shortened. In this base station, a PDCCH section ( 103 )

generates one piece of downlink ...

[Get Started](#)



**2MW / 5MWh  
Customizable**

### **CN114303423A**

The present invention provides a technique for implementing a service using inter-terminal communication such as V2X communication. The communication system includes a base ...

[Get Started](#)

### **TERMINAL, WIRELESS COMMUNICATION METHOD AND ...**

[0008] Thus, an object of the present disclosure is to provide a terminal, a radio communication method, and a base station that suppress deterioration of communication quality even when ...

[Get Started](#)



### **TERMINAL, BASE STATION, WIRELESS COMMUNICATION ...**

TERMINAL, BASE STATION, WIRELESS COMMUNICATION SYSTEM, AND



WIRELESS COMMUNICATION METHOD - Patent 4465720[0009] An aspect of the disclosure is a base ...

[Get Started](#)

---

## CN103493563A

The base station maps and sends the control information for the terminal to the second control channel. The first transmission port is a transmission port used for sending cell-specific ...

[Get Started](#)



## EP2704501A1

In a radio communication system in which a base station and a terminal communicate with each other, the base station is capable of efficiently notifying the terminal of control information. The ...

[Get Started](#)

---

## US20140153532A1

Definitions the present invention relates to a terminal, base station, communications system, and communication method. a base stationIn

wireless communications systems such as Long ...

[Get Started](#)



### **US20210135824A1**

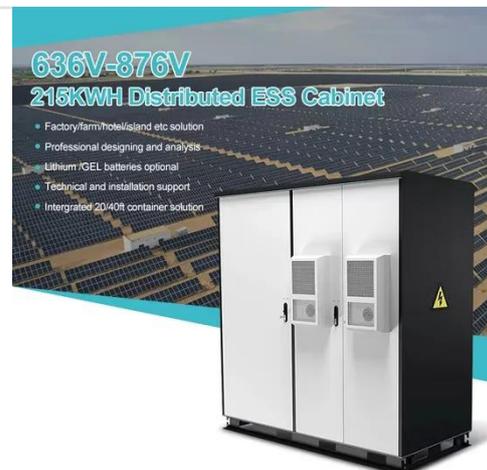
One non-limiting and exemplary embodiment of this disclosure facilitates providing a base station, a terminal, and a communication method each allowing a UE to monitor a search space in ...

[Get Started](#)

### **What is the difference between Base Station and Repeater**

The performance of base stations directly affects the service quality of mobile communication networks, including call quality, data transmission rate, network capacity, etc. With the ...

[Get Started](#)



### **WO2013172370A1**

An object of the present invention is to provide a base station, a terminal, a communication system, and a communication method that can

efficiently set the position of a search region ...

[Get Started](#)



---

## WO2012147640A1

Efficient notification of control information by a base station to a terminal is made possible in a wireless communications system wherein the base station and the terminal communicate. The ...

[Get Started](#)



## Base Stations

Jul 23, 2025 · The present-day tele-space is incomplete without the base stations as these constitute an important part of the modern-day scheme of wireless ...

[Get Started](#)

---

## US20250056546A1

At a base station, a control unit selects one combination from multiple combinations of parameters regarding uplink control channel (PUCCH)

resources. A transmission unit indicates a terminal ...

[Get Started](#)



## US9538397B2

A base station is provided in which a terminal efficiently controls a demodulation reference signal for a data signal transmitted from the base station in a wireless communication system in ...

[Get Started](#)

## WO2013018612A1

A base station communicates with a terminal, using a resource element which is configured using a frequency direction region and a time direction region, and a resource block pair which is ...

[Get Started](#)



## WO2012147638A1

The base station maps and sends the control information for the terminal to the second control channel. The first transmission port is a transmission port

used for sending cell-specific ...

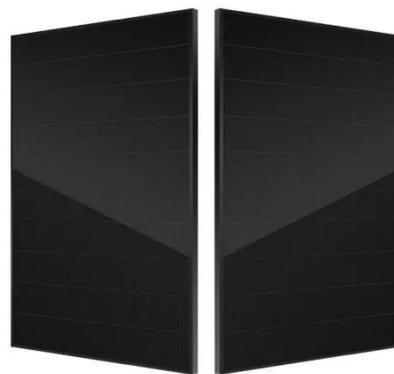
[Get Started](#)



## WO2021082527A1

The present disclosure relates a communication method and system, a base station and a terminal and relates to the technical field of communications. The method of the present ...

[Get Started](#)



## Distance Estimation between Base Station and User Terminal ...

Oct 26, 2018 · We discuss the distance estimation between the base station and user terminal in wireless communications using multi-carrier signal. In this paper, we propose a

[Get Started](#)

## US20230413273A1

At a base station, a control unit selects one combination from multiple combinations of parameters regarding

uplink control channel (PUCCH) resources. A transmission unit indicates a terminal ...

[Get Started](#)



## Communication methods, base station, and terminal ...

The information sending method comprises the following steps: a first base station determines a first time adjustment parameter and a second time adjustment parameter; the first base station ...

[Get Started](#)

## Contact Us

For catalog requests, pricing, or partnerships, please visit:  
<https://www.persianasaranda.es>