

ContainerPower Energy Solutions

Communication base station EMS power operation



Overview

What is Power Conversion System (PCS) and Energy Management System (EMS)?

Power Conversion System (PCS): Think of the PCS as the translator. It converts electricity between alternating current (AC) and direct current (DC), facilitating the charging and discharging of the battery. Energy Management System (EMS): The EMS is the brain of the operation.

How do PCs and EMS work together?

For the PCS and EMS to work in harmony, they need a reliable communication channel. This is where RS485 and Modbus come into play: RS485: A robust serial communication standard that allows multiple devices to communicate over long distances, making it ideal for industrial settings.

How does EMS work?

It's widely used due to its simplicity and reliability. Command Initiation: The EMS sends a command via Modbus over the RS485 link to the PCS, instructing it to perform a specific action, like adjusting power output. Action Execution: The PCS receives the command and executes the required operation.

What is a Modbus EMS?

Modbus: A communication protocol that operates over RS485, enabling structured data exchange between devices. It's widely used due to its simplicity and reliability. Command Initiation: The EMS sends a command via Modbus over the RS485 link to the PCS, instructing it to perform a specific action, like adjusting power output.

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