

## ContainerPower Energy Solutions

# Solar Base Station EMS Power Generation Requirements

### ESS



## Overview

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Does EMS support single energy storage unit control?

Similar to active power control, EMS also supports single energy storage unit control when controlling reactive power. The user can set the single energy storage unit into three types: automatic control, free power generation and manual setting.

What is Energy Management System (EMS)?

The Energy Management System (EMS) coordinates the operation of these resources, ensuring that energy is produced, stored, and consumed as efficiently as possible. EMS also oversees power dispatch within microgrids, determining how much energy should be generated by each source, how much should be stored, and how much should be used.

How does EMS control energy storage power stations?

EMS regulates the stable change of active power of energy storage power stations to avoid short-term impact on the power grid. The control objectives include 1-minute change rate and 10-minute change rate. The change rate of active power can be adjusted by configuring energy storage batteries with an installed capacity of 10%.

What systems need emergency power?

Combined systems: With combined hydronic and force air systems, emergency power is needed for the boilers, circulating pumps, air handling units, and HVAC controls. Emergency power to ventilation systems and make-up water systems may also be needed. Air conditioning systems mechanically cool the interiors of buildings.

Why is EMS important in a solar project?

EMS plays a critical role in ensuring safety in utility-scale solar projects: Risk Management: Monitors vital metrics, such as temperature and voltage, to

detect potential failures early. Automated Protections: Features like automated fault isolation and fire prevention systems protect the installation from major damage.

What is energy storage EMS?

The energy storage EMS supports receiving and dispatching the control target value sent by the multi energy cooperative controller of PPC master station or local PPC sub station in real time.

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