Case Study

Jinko ESS Solution of On-grid DC-coupled System

891kW/15480kWh BESS Project in Japan

Project Overview

This project is located in Miyazaki, Kyushu, Japan. It is Japan FIT project with a total of 18 sites, each site with 49.5kW/860kWh, totally 72 units of 215kWh DC blocks. Jinko proposed PV+ESS solution integrates the Tigeo Neo PV modules and C&I Sungiga 215kWh DC block. This project makes full use of the abundant sunshine in the area to enable the customer to sell electricity to the grid 24 hours a day.

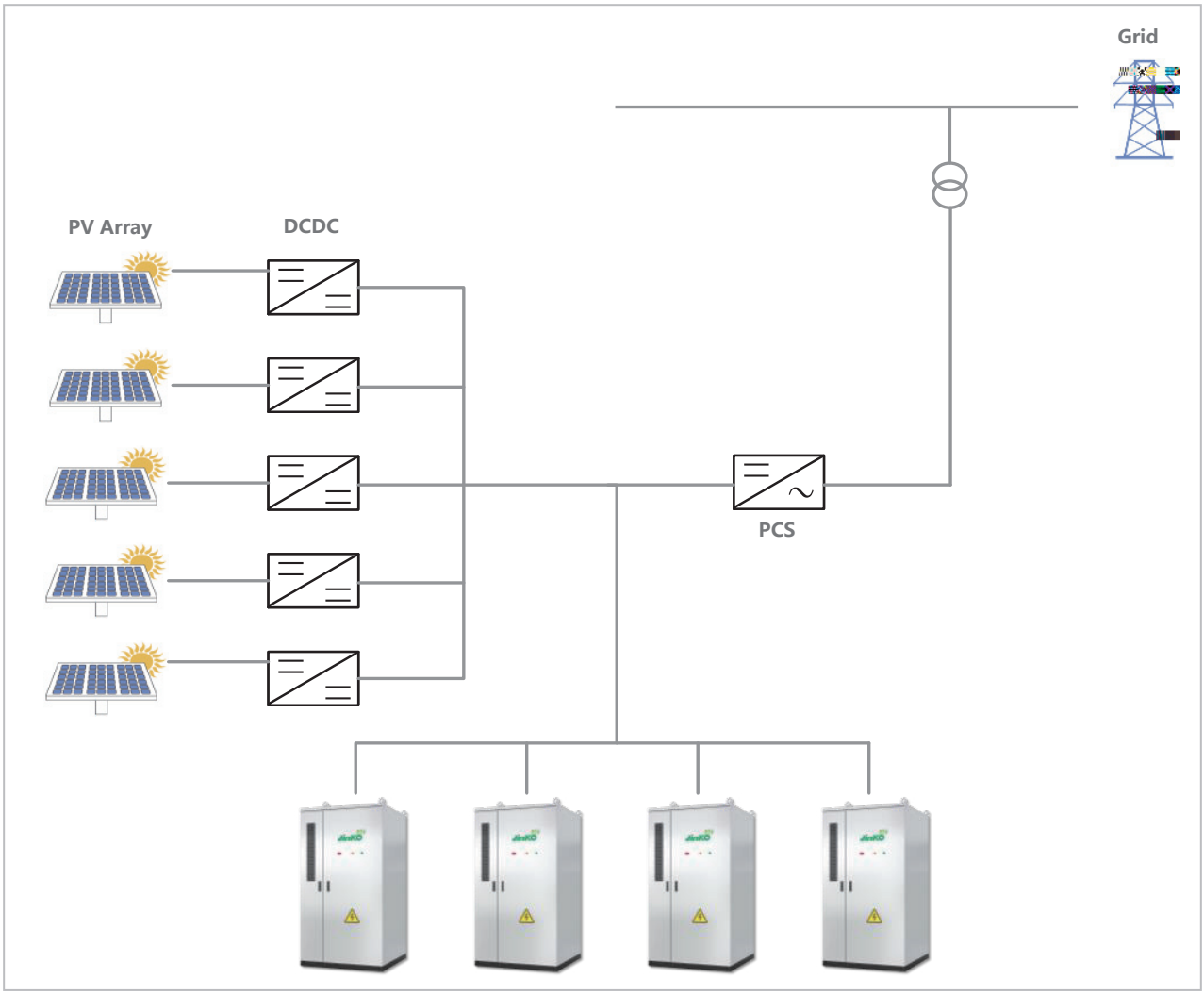

Fig. 1 Single Line Diagram of on-grid DC-Coupled System

The Solution

Each site of this project consists of 289.8kW PV modules, 4 sets of Sungiga215kWh DC block, 1 set of 62.6kWPCS (downsized to 49.5kW) and 1 set of 250kW DCDC cabinet (consists of 5 sets of 50kW DCDC modules).

The DC block use lithium iron phosphate batteries, equipped with a liquid cooling system and aerosol fire protection, designed to meet the requirements of the Japanese Fire Services Law, and equipped with the Jinko ESS cloud platform.

Fig. 2 Jinko ESS 215kWh DC Blocks