

# Installation Scheme for a 50kW Photovoltaic Container for Field Research





## Overview

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What makes up a complete 50kVA solar power plant?

The following configurations make up a complete 50kva 50kW solar power plant: 1)87pcs 16mm<sup>2</sup>\*35CM,6pcs 16mm<sup>2</sup>\*2M battery cable,20M 16mm<sup>2</sup> cable with battery terminal. Optional solar mounting support, PV combiner boxes, and cables. PVMARS provides a complete turnkey PV energy storage system solution.

Which PV module is suitable for 50 kW power system?

PV module selection The selected PV module isBYD-250P6-30 manufactured by BYD solar company , where the module parameters and ratings is included in Table I. This module agrees with MJEC requirements . The maximum power of this module is found tobe 250 W, hence it requires 200 module to design 50 kW PV power system.

How to design a 50 kW PV system?

The rooftop has a storage room centred in the middle of roof area; therefore shading area must be estimated in order to avoid setting the panels on the shadedarea. The required area must satisfy the estimated area along with its constraints. For designing 50 kW PV system by means using a panel.

How much space does a 50 kW solar PV system need?

According to RETSCREEN energy module results, for designing a 50 kW solar PV system it requires an area of 325m<sup>2</sup> for installing PV panels; however RETSCREEN energy model does not consider the constraints that might affect the available area for PV panels installation such as the shaded area to be



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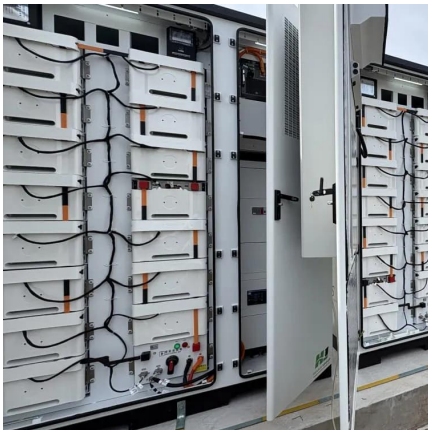
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