

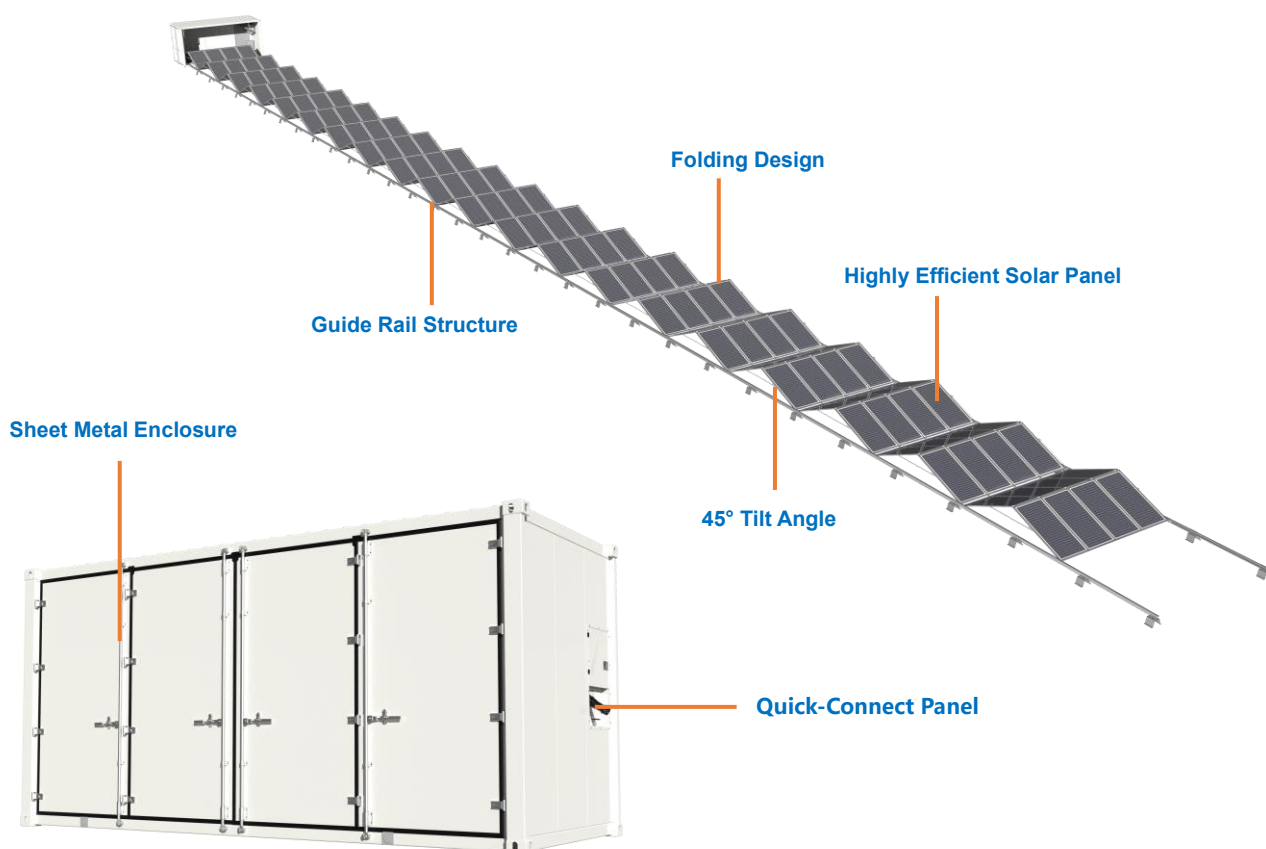
PSP100K

Portable PV System

160×650Wp Solar Panels

Product Introduction

PSP series portable PV system is a solar power generation solution designed to meet flexible energy needs. This system consists of 160×650Wp bifacial solar panels, with a total power generation capacity of 104kWp. It features an integrated deploy/fold structure, allowing to be folded as a whole and stored in a containerized enclosure for convenient transport. Equipped with a guide rail design, the panels can be quickly slid out during deployment, unfolded into an array at a 45° tilt angle, and installed with ease. The containerized structure integrates the complete electrical system for user-friendly operation. It supports being used in conjunction with the grid, diesel genset, and PowerLink hybrid energy systems, and is suitable for scenarios requiring large-area industrial electricity consumption and energy supplementation for photovoltaic power stations.



Efficient Power Generation

160×650Wp solar panels, with a daily average power generation of 624kWh. Multiple groups can be used in combination to meet large-capacity electricity demand.



Plug-and-Play

Equipped with quick-connect connectors for plug-and-play operation, featuring high waterproof performance, convenient use, high efficiency, and enhanced safety.



Flexible Deployment

The containerized structure allows the solar panels to be fully deployed or folded as a whole, facilitating transport and storage while adapting to various application scenarios.



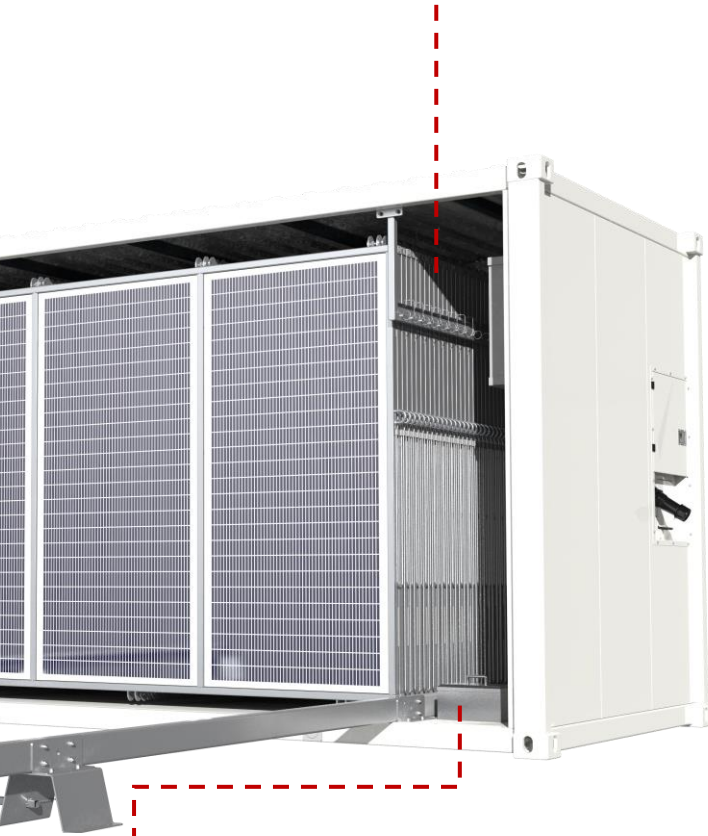
Multi-Energy Complementation

It can be used in conjunction with the grid, diesel genset, and hybrid energy units to achieve energy complementation and optimization.

Product Features

Containerized Structure

Enables easy transport, while the integrated design allows for quick and convenient assembly and storage

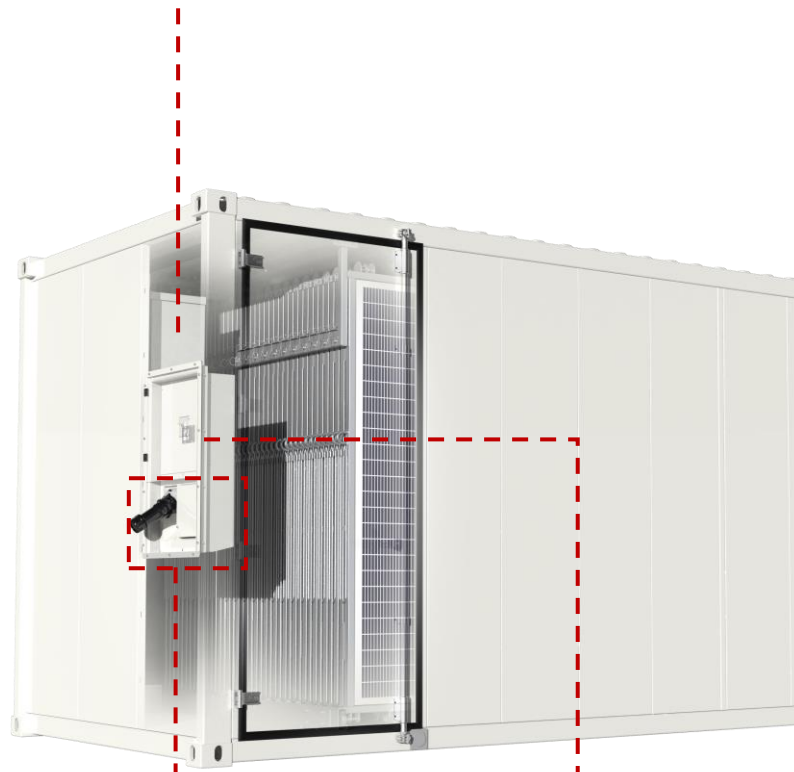


Convenient toolbox

Includes installation tools, facilitating quick deployment and fixation

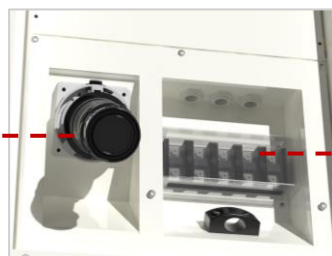
PV Inverter

High-efficiency inverter (up to 99%) with multiple protections, plus remote upgrade, configuration, and monitoring for smart O&M



Isolating Switch

Equipped with an isolating switch to enhance system safety



Plug-and-Play Connectors

Equipped with convenient quick-connect connectors for plug-and-play operation, featuring a waterproof design for safe and reliable use

AC Terminal Blocks

Optional internal AC terminal blocks, combinable with quick-connect connectors for flexible wiring

Technical Parameters

Basic Parameters

Product model	PSP100K
Output power	104 kWp
Type of solar panel	Mono crystalline
Number of solar panels	160
Solar panel power	650 Wp
Daily power generation	624 kWh (Calculate based on 6h/day)
Service life	25 years
Folded dimensions (L×W×H)	96×5.3×1.2 m
Guide rail length	96 m
IP rating	IP66
Operating ambient temp.	-25~60 ℃

Transport Parameters

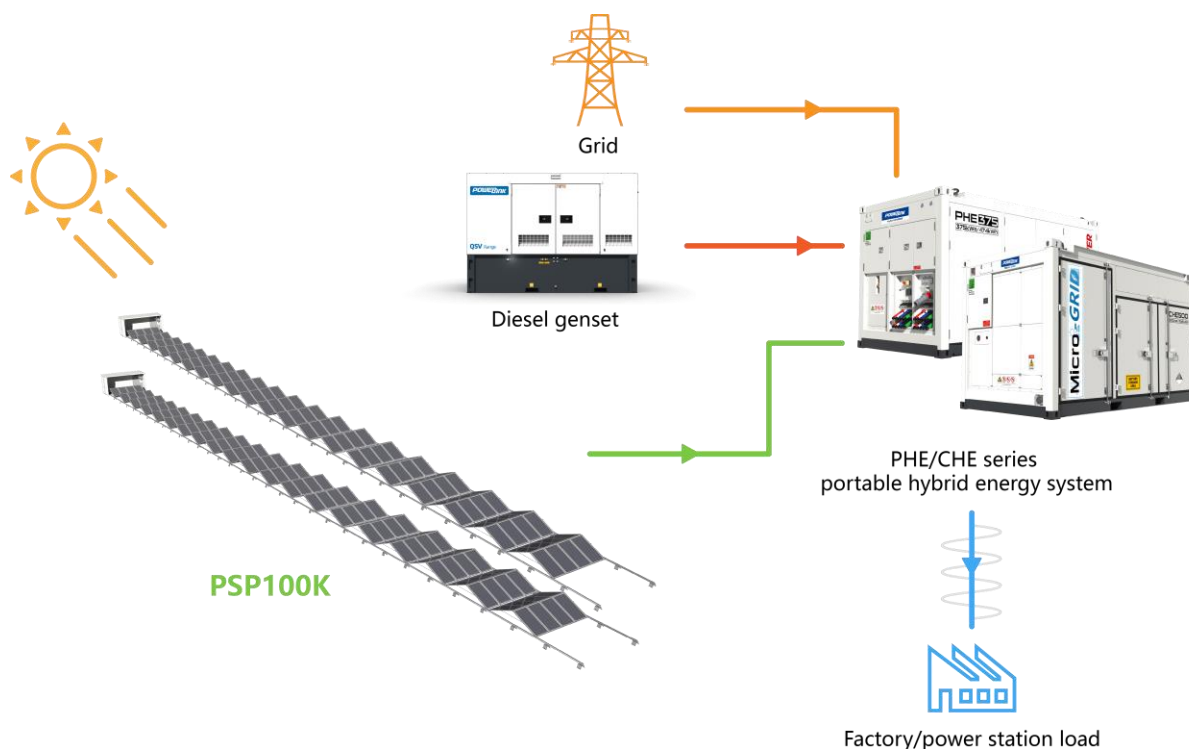
Total weight	15800 kg
Dimensions (L×W×H)	6058×2438×2896 mm
40' Loading	2

AC Output Parameters

Solar panel capacity	104 Pmax/kWp
String inverter power	110 kW
Rated output voltage	220/380 V AC, 3/N/PE
Rated output frequency	50/60Hz, ±5Hz

Inverter Input Parameters

Max. PV array power	165 kWp
Max. DC input voltage	1100 V DC
Rated DC input voltage	600 V DC
Operating voltage range	200-1000 V DC
Inverter voltage range	180-1000 V DC
No. Of MPPT trackers/ strings per tracker	9/2
Communication interface	RS485/DRM



Standard Configuration

- Container-Type Housing
- Towing Ring
- Quick-Connect Connector
- 160×650W Solar Panels
- 96m Guide Rail
- AC Terminals
- Inverter
- Toolbox
- Isolating Switch

