

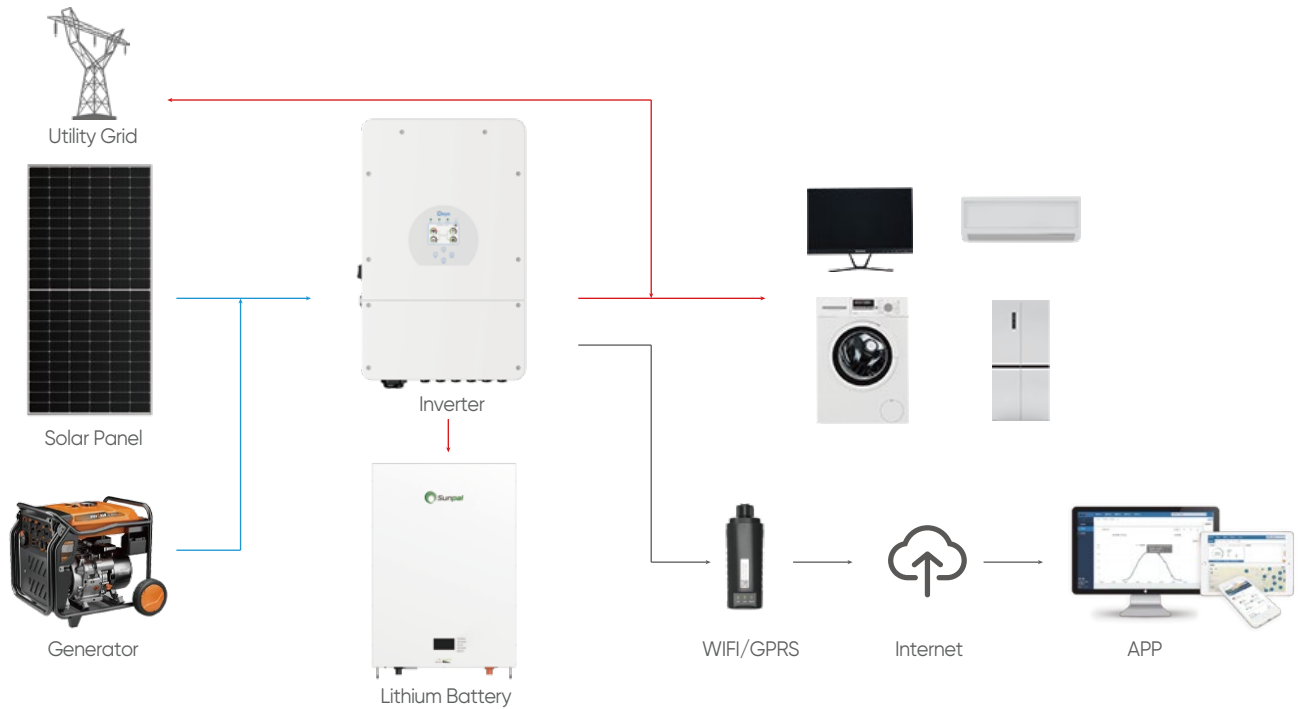
# Hybrid Solar System

## US Voltage

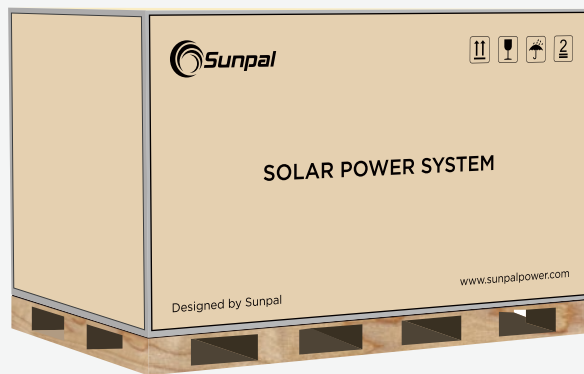
SP-12KW2-HY

# SP-12KW2-HY

(Residential Hybrid Solar System)



## SOLAR SYSTEM KIT



Solar Panel



Lithium Battery



Solar Inverter



Wifi Monitor



PV Cable



MC4 Connector



Mounting Bracket



DC Switch/AC Switch(Optional)



## PV Module

- Adopting the 182\*210mm N-Type TOPCon cells with the highest efficiency
- Mechanical load tests including wind load 2400Pa and snow load 5400Pa done by TUV
- Ensure the attenuation probability caused by PID phenomenon is minimized
- Strict salt spray and ammonia corrosion test by TUV

### Parameter

Testing Condition	STC
Maximum Power(Pmax/W)	620W
Open Circuit Voltage(Voc/V)	49.55
Short Circuit Current(Isc/A)	15.93
Voltage at Maximum Power(Vmp/V)	41.06
Current at Maximum Power(Imp/A)	15.10
Module Efficiency(%)	22.95



## 620w

TOPCon Bifacial Dual Glass Solar Panel

## Lithium Battery



## 48V 200Ah

Rack-Mounted  
LiFePO4 Battery

- High Specific Energy
- Support Parallel Operation
- Easy Installation
- Long Cycle Life

### Parameter

Nominal Capacity	200Ah
Nominal Voltage	48V
Max.Charging Current	100A
Max.Discharging Current	100A

## Inverter

- Colorful touch LCD, IP65 protection degree
- AC couple to retrofit existing solar system
- 6 time periods for battery charging/discharging
- Support storing energy from diesel generator

### Parameter

#### AC Output Data

Rated Output Power	12000W
Rated Output Voltage/Frequency	120/240Vac split phase, 50Hz/60Hz

#### Battery Input Data

Battery Type	Lead-acid or Lithium-ion
Battery Voltage Range(V)	40-60

#### PV String Input Data

No.of MPP Trackers	3
No.of Strings per MPP Tracker	2+2+2
MPPT Voltage Range(V)	150-425



## Deye 12KW

Inverter



Solar  
Systems

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