Sunpal

Hybrid

Hybrid Solar System

US Voltage

SP-30KW3-HY

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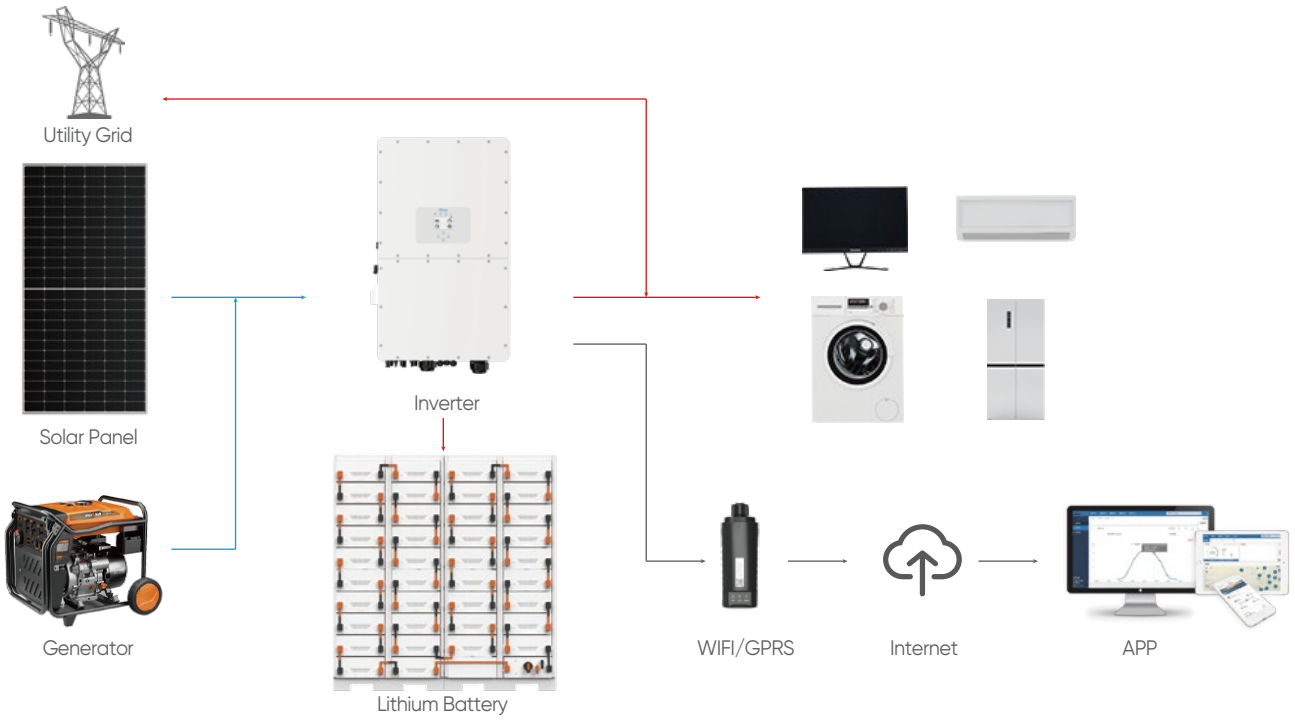
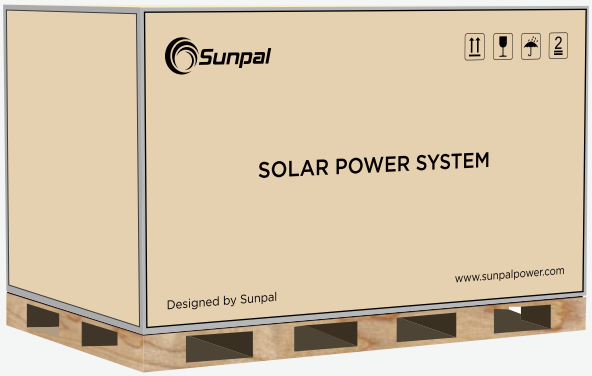
SP-30KW3-HY

(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

460.8V 280Ah
Rack-Mounted LiFePO4 Battery

· Quick Customization of Electricity
· Easy Installation Flexible Expansion
· Emergency-Backup and Off-Grid Functionality
· Safety first Smart BMS system

Parameter	
Nominal Capacity	280Ah
Nominal Voltage	460.8V
Max.Charging Current	140A
Max.Discharging Current	140A

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	30000W
Rated Output Voltage/Frequency	127/220Vac three phase, 50Hz/60Hz
Battery Input Data	
Battery Type	Lithium-ion
Battery Voltage Range(V)	160-800
PV String Input Data	
No.of MPP Trackers	3
No.of Strings per MPP Tracker	2+2+2
MPPT Voltage Range(V)	150-850

Deye 30KW
Inverter

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solar system

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