



Estd: 1987



Hybrid Solar Power System



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Products are subject to change with no further notice

Green Energy
Power Saving Year after Year
Small footprint
MPPT Charger
Fully Digital design



Hybrid Solar Power System HSPS Series (1KVA ~ 100KVA)

HSPS series integrates the solar inverter and charger technology, which supplies economical power solutions for varied applications. HSPS can work in various modes such as solar mode, AC main mode and battery mode. The system contains solar controller, solar inverter and charger. It is compact in design and is light weight. HSPS supplies uninterruptible power for various electrical & electronic systems for continuous running.



Features

Integrated with solar charger, AC charger, inverter, AC bypass switch, transformer, solar and DC battery terminals, protection breakers and LCD display

MPP tracking technology(above 3KVA),offer wide input voltage, low input current, stable charging voltage and current, reduces the investment of solar panels, increases the converted efficiency up to 20-30%

Auto-switch smoothly transfer the load to city power or inverter's output

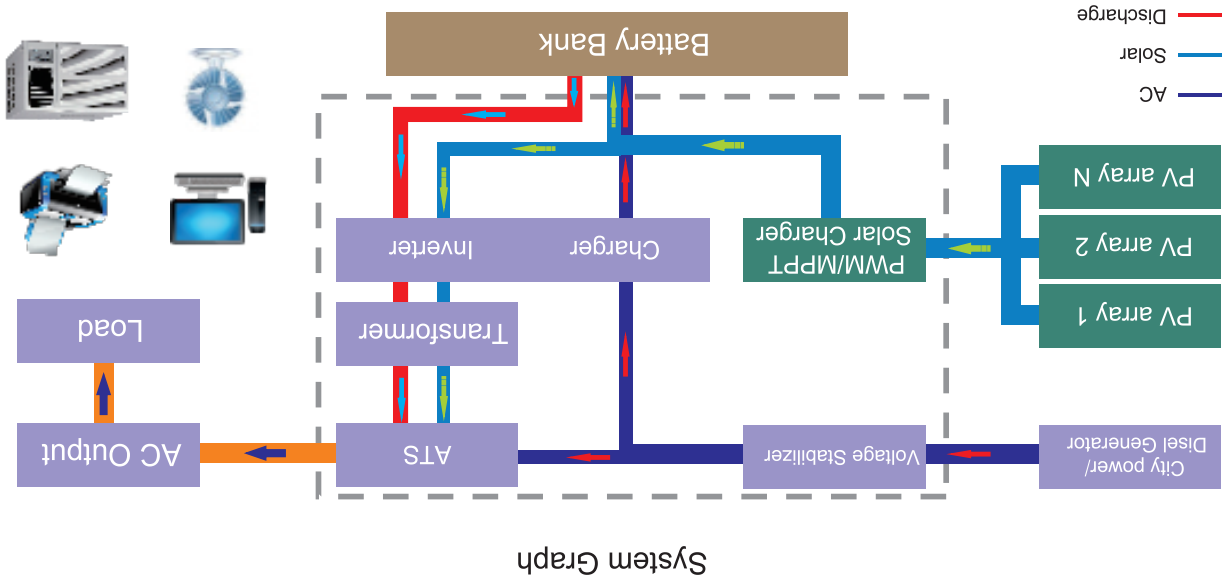
Auxiliary-charging could complement power to battery by city power even if PV array does not work in the rainy days.

Low frequency transformer allows to withstand high inrush load current, supports computers, industry loads, fan, pump, refrigerator, TV, air conditioner,lamp etc

True sine wave output

Preferential solar charging function uses the renewable energy while city power is on standby mode

The input of city power can be substituted by the input of diesel generator



Technical data

Capacity	1KVA to 100KVA
Rated Battery Voltage	24 V to 360 V
Battery Configuration	max. 200AH External

Solar Charger parameters

Charger Type	MPT/PWM
Rated PV Input Power	700W to 4800W
PV Input Voltage Range	30~450 Vdc
Max. Solar Charging Current	30 A to 50 A
Battery float charge voltage	27 Vdc to 620 Vdc
Battery equalization charge voltage	28Vdc to 420 Vdc

AC Charger parameters (optional)

City Power Input Voltage Range	175~270Vac(50Hz) (Single Phase)
City Power Input Frequency Voltage	50 Hz ±3%
AC Charging Current	Standard: 10A, Max.: 15A

Inverter parameters

Inverter Output Voltage	220Vac ±3%
Inverter Output Frequency	50Hz ±1%
Efficiency	>85.0%
Overload Capability	Overload Protection: 100~120% 30s; 120~150% 10s; >150% 5s; Short circuit, 0.1ms
Crest factor	3 (can endure any startup of inductive load)
Output Wave	True Sine Wave

Others parameters

Display	LCD+LED
Display Content	Input V/ Output V/ Frequency/Battery %
Comprehensive Protections	AC&DC Overload, Under-voltage, Short-circuit, Overcharge, Over-discharge, Over-temperature
Cooling	High-velocity Cooling Fan
Noise	<60dB
Operation Temperature	0~50°C
Storage Temperature	-15~+50°C
Humidity	0~90%, No Dew
Altitude	0~3000m (Above 1000m, Derated Power 1% per 100m)

*Specifications subject to change without prior notice