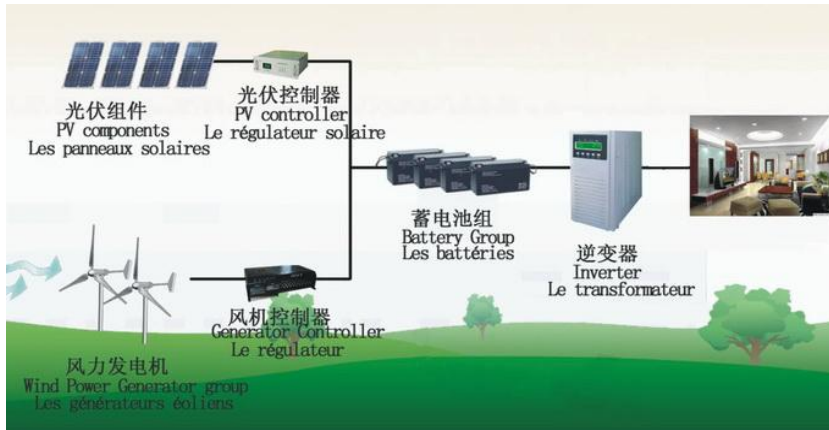


Wind-Solar Hybrid Power Supply Systems Catalogue (Rev.20110922)



ANERN -- Customized Wind & Solar Power Solutions and Core Equipment Provider

ANERN is specialized in wind & solar power solutions and manufacturing of relevant products. The solutions include off-grid or grid-tied wind power, solar power or wind-solar hybrid power, which can all be supplied by ANERN in complete pack with optimum system configuration to satisfy clients' any customized requirements.

This catalogue focuses on detailed presentation and catalogue for off-grid wind-solar hybrid power supply systems. Herewith it provides a diversified options to meet different power needs. Smaller or bigger types are also available as per clients' specific request.

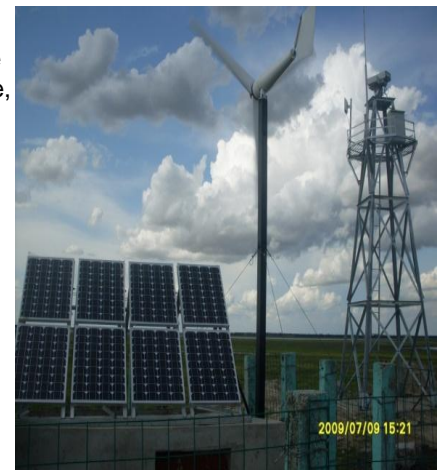
System Introduction

Wind-solar hybrid power supply system is widely used for application where there is power shortage, and the areas have no grid network coverage, or grid power is in serious unstable or outage condition. It's composed of wind turbine, solar panels, hybrid controller, inverter, battery bank, tower, and other accessories required for a complete system. The wind turbine and solar panels can generate electricity independently or together whenever there is wind or sunshine, and charge the battery bank through the controller. The battery bank gives a stable power output to the inverter which converts DC to AC to power loads, and provides power backup in rainy or cloudy days. This system combines wind and solar resources and are able to provide a more reliable and stable power output. All the system configurations are worked out by scientific calculation and design.



Applications

The wind-solar hybrid systems are widely used for power supply of residence, remote villas, resorts, island, villages, water pumping, bill board lighting, communication base, camera monitoring, and whatever cases which are in need of power.



Advantages

The wind-solar hybrid system provides a stand-alone power supply for all users, which is independent, reliable and stable. Users shall not rely on grid power any more. The system operates for quite long service time, with little maintenance. No bills for electricity; environment friendly.



Off-Grid Solar Power Supply System Quotation		Ref No.: OFF-WSP-2*2KW/1KW	
System Basic Information:	<p>Wind Turbine Rated Output Power: 2*2000W</p> <p>Solar Panel Rated Output Power: 1000W</p> <p>Suitable for Daily Power Consumption: 10KWH</p> <p>Allowable Max Loads Power: 5000W</p>		
Wind Turbine	<p>2KW 48V, 3-phase AC PMG, 3-blade type.</p> <p>Startup wind speed 2.5m/s, rated 10m/s Windmill Diameter: 3.2m; Net weight: 108kg</p> <p>Over 20 years service without maintenance; Warranty: 2 years (CE, ROHS certified)</p>	QTY:	2 set
Solar Panel	<p>Cell Type: monocrystalline (poly optional) Max Power: 250W Vmp: 35.5V Imp: 5.64A Size: 1580*808*45mm Weight: 16kg/pc 25 years power output guarantee (CE, ROHS, IEC certified)</p>	QTY:	4 pcs
Hybrid Controller	<p>Input: 4KW wind + 1KW solar / DC48V; hybrid type; MPPT intelligent control, LCD display; Various protections, automatic dump load and brake; Warranty: 2 years</p>	QTY:	1 pc
Inverter	<p>AC380V 3-phase, Rated Output Capacity: 5KW True sine-wave, off-grid type; MPPT automatic power tracking, high inverting efficiency up to 90%; various protections. Warranty: 2 years</p>	QTY:	1 pc
Battery	<p>12V/200AH per piece Solar power lead-acid battery, fully sealed, deep cycle, free maintenance type; Service Life: 5~6 years; Warranty: 2 years</p>	QTY:	10 pcs
Wind Turbine Tower	<p>8m high, O.D: Φ114mm, thickness 4.0mm; Q235A steel pipe, guy cable type; Hot-dip galvanized treatment, including mounting bolts and screws.</p>	<p>(optional) This item can be supplied as per request, price not included)</p>	
Total System Price:		US\$7,240	

Attention:
This system configuration is for reference. It can be adjusted based on actual condition and requirement. All parts have been tested and proven in actual operation with enough reliability and stability. It's suggested to source whole system as a pack from us to guarantee the system compatibility.

Notes:
1. Pictures shown are for reference.
2. Power consumption data is based on areas with average wind speed of 4.5m/s and average daily peak power sunshine of 4hrs.
3. The battery capacity is designed for 2~3 days backup in continuous rainy or cloudy weather.
4. Solar panel racks are not included.

Terms and conditions:
1. Price: EXW Guangzhou in USD.
2. Payment: 30% by T/T, balance by T/T or L/C at sight.
3. Package: Export standard package suitable for tough handling and transport.
4. Delivery: Goods to be ready for shipment within 12~30 days depending on order quantity.
5. Warranty: see left list for each part.
6. Validity: 30 days.
7. Certification: CE, IEC, ROHS