

## MODEL : WSB-3S

### HYBRID POWER STATION



#### Design Standards

WSB® is a new range of secure integrated hybrid power station. With solar power, Wind power, Battery storage and Hybrid solar Inverter in one secure unit.

WSB® is mainly developed for residents Power, Reduce the dependence on Main Power and decrease the consumption cost.

#### Benefits

- Integrated installation, convenient storage and transportation;
- High return on investment and quick return;
- Simple operation and easy maintenance;
- Power and Capacity can be expanded, meet different user needs;
- Green, renewable and clean energy, supported and subsidized by the state;

#### Warranty

Battery Performance: 2000 cycles(80% DOD) or 2 years after manufacture;



#### General Specification

|                              |  |
|------------------------------|--|
| Model                        | WSB-3S   |
| System Rated Output Power    | 3kVA   |
| Rated Output Voltage         | 220V@50Hz/60Hz, 1ph.<br>(According to customer requirements) |
| Min.Battery Storage Capacity | 5 kWh  |
| Max.Battery Storage Capacity | 20 kWh   |
| Max.Wind Power               | 400W   |
| Max.Solar Power              | 2750W  |
| Output Terminals             | Copper terminals & CEE 16A/3P Socket                         |
| Expand Dimension(W*D*H)      | 3900*5400*7000mm   |
| Loading Dimension(W*D*H)     | 1750*1150*2550mm   |
| Net.Weight                   | 1210kg   |
| Loading Capacity of 40'HC    | 12 units   |
| Discharge Temperature Range  | -20°C~50°C   |

## SOLAR PANEL

MAX.POWER:  
**2750<sub>W</sub>**

With HIGH EFFICIENCY  
UP TO **21%~!!**

## HIGH STRENGTH METAL FRAME

COFFIDENCE IN  
FACING **WIND & RAIN**

## INTELLIGENT INVERTER

ONE PIECE FOR  
**SOLAR & BATTERY**  
& **GRID**

Fits the practical  
application & guaranteed  
by high-quality  
manufacturing  
technology



### Solar Panel

|                        |          |
|------------------------|----------|
| Maximum Power          | 550W     |
| Power Tolerance        | 0~+5W    |
| Max-Power Voltage (Vm) | 41.96VDC |
| Max-Power Current (Im) | 13.11A   |
| Qty.                   | 5pcs     |

### Energy storage battery

|                           |                 |
|---------------------------|-----------------|
| Cell Type                 | LFP(LiFePO4)    |
| Pack Model                | MF51100D        |
| Pack Capacity             | 5 kWh           |
| Pack Rated Voltage        | 51.2 VDC        |
| Discharge Depth           | 90%             |
| Charger/Discharge Current | 97.7 A(1.0C)    |
| Battery Rack Voltage      | 43.2V~59V       |
| Rated Cycle Life          | ≥2000 (80% DOD) |

### Wind Turbine

|                     |       |
|---------------------|-------|
| Rated power         | 400W  |
| Rated Voltage       | 48VDC |
| Start-up wind speed | 2m/s  |
| Rated wind speed    | 10m/s |
| Survival wind speed | 45m/s |

### Hybrid Inverter System

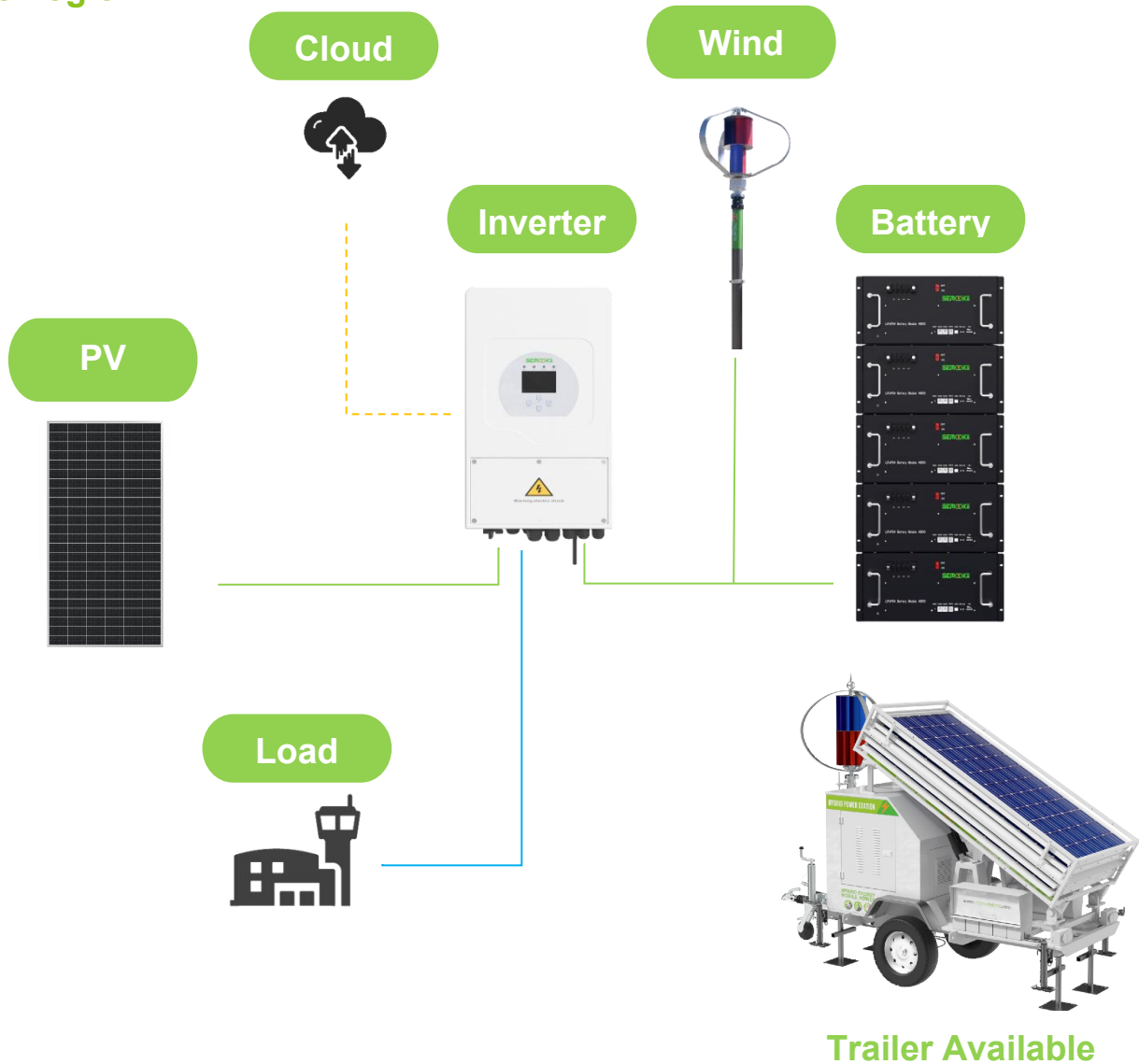
|                              |                             |
|------------------------------|-----------------------------|
| Solar Controller             | MPPT                        |
| AC Voltage Range             | 220~230Vac                  |
| Max.PV Current               | 13A                         |
| Max.Charge/Discharge Current | 70A                         |
| Max.Conversion Efficiency    | 97.6%                       |
| Rated Output Power           | 3kVA(0.8leading~0.8lagging) |

## Options

### Hybrid Power Station

- Larger Battery Pack
- Split Phase Inverter
- Galvanized / Aluminium Canopy
- Tools with the machine
- Trailer

## Basic Logic



|                       |                        |                      |
|-----------------------|------------------------|----------------------|
| <b>Power Priority</b> | <b>Highest</b>         | <b>Secondary</b>     |
| <b>Functions</b>      | PV<br>Take load/charge | Battery<br>Take load |



**MPMC POWERTECH CORP.**  
sales@mpmc-china.com | www.mpmc-china.com

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