

Hybrid power systems:

1-Product description:

Wind turbine low start up speed

High wind energy utilization

Low vibration

Power: 100W

2-Easy installation and repair :

High penetration of renewable energy requires an intelligent control system for the different energy sources.

A cost-optimized system operation and grid stability at all tunes are the key functions of such a system.

The wind turbine is fixed on a wheel support.

Perforated safety cage steel.

Outer dimension: 1700x1000x1000mm

Pv module:

-peak power (pmp) 100w 2%

- maximum power current (imp) 5,5 A

- maximum power voltage (vmp) 18V

- operation (from 40 degrees C to 80 degrees C)

- short circuit current (tsc) 6,05A

-open circuit voltage 21,6V

-operation temperature -40 degrees to 85

- dimension approx: 1200x54x30mm

-the system is fixed on a wheel support

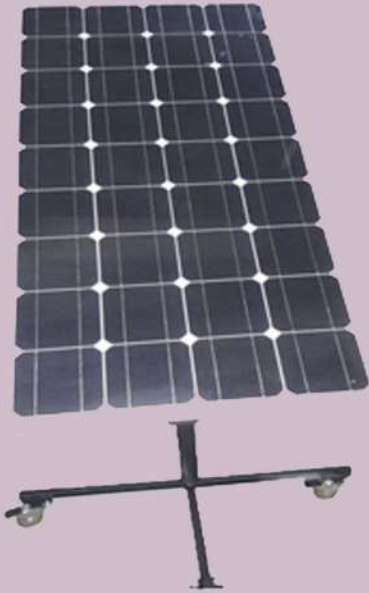
-the system can be used of indoors equipped by lighting 100W and de-mounted for outside use only.

Centrifugal Fan three speed:

ph 220v/50hz

max A 2/1,7/1,4

input power /280/200/160w/ approx



RPM 1370/1260/160 approx

Fixed up on a wheel support.

Circuit board:

UPS 200W or above

2 Batteries 17 Ah (for electrical accumulation, for demonstration)

Digital anemometer:

Portable digital anemometer handheld LCD

Electronic wind speed

Volume measuring meter backlight

Electronic hybrid controller:

Outlets for multi-connections (wind turbine, pv solar combined during the experimentation)

The system is mounted with a security circuit break)