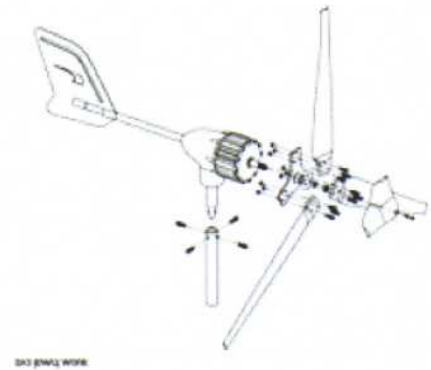


# Horizontal Wind Turbine



## Model: WI-1000



## Specifications

| S/N                                                         | Item                 | Description                   | Note               |
|-------------------------------------------------------------|----------------------|-------------------------------|--------------------|
| Small Wind turbine with high reliability model No.: WI-1000 |                      |                               |                    |
| 1                                                           | Type                 | Horizontal                    |                    |
| 2                                                           | Rated power          | 1000W                         |                    |
| 3                                                           | Max power            | 1200W                         |                    |
| 4                                                           | Rated voltage        | 24V~380V                      |                    |
| 5                                                           | Rated RMP            | 800RPM                        |                    |
| 6                                                           | motor                | Permanent magnet/trophies     |                    |
| 7                                                           | Generator Efficiency | > 75%                         |                    |
| 8                                                           | Start-up             | ≤2m/s                         |                    |
| 9                                                           | Cut-in               | ≤2.5m/s                       |                    |
| 10                                                          | Rated wind           | 12M/S                         |                    |
| 11                                                          | Cut-out              | ≥20m/s                        |                    |
| 12                                                          | Survival wind        | ≥60m/s                        | Anti-wind strength |
| 13                                                          | Blade                | 5                             | Horizontal         |
| 14                                                          | Diameter             | 1.8m                          |                    |
| 15                                                          | Blade material       | Glass fiber 、strengthen nylon |                    |
| 16                                                          | Weight               | 25kg                          |                    |
| 17                                                          | Axial runout         | ≤0.0033times of diameter      |                    |
| 18                                                          | Noise                | ≤55dB ( A )                   |                    |
| 19                                                          | Wind efficiency      | > 0.42                        |                    |
| 20                                                          | Working temperature  | -20℃ ~ 55℃                    |                    |

|                                  |                                   |                                                                                  |                          |
|----------------------------------|-----------------------------------|----------------------------------------------------------------------------------|--------------------------|
| 21                               | Design working life               | 25years free of maintenance                                                      |                          |
| 22                               | Approval                          | CE, ISO9000:2001                                                                 |                          |
| 23                               | Packing details                   | Export wood: GW: 29kgs Meas.:<br>148×50×28cm                                     |                          |
| 24                               | Warranty                          | 5 years                                                                          |                          |
| 25                               | Delivery time                     | Within 20 days after confirming order of<br>1x20' container                      |                          |
| <b>Wind generator controller</b> |                                   |                                                                                  |                          |
| 26                               | temperature                       | -20℃ ~55℃                                                                        |                          |
| 27                               | Humidity                          | ≤95%                                                                             |                          |
| 28                               | Altitude                          | ≤5000m/s                                                                         |                          |
| 29                               | Protection level                  | IP55                                                                             | Out-room                 |
| 30                               | tower type                        | Guyed tower                                                                      |                          |
| 31                               | Size                              | Dia.×L= ϕ 3.1m×L1.6m                                                             |                          |
| 32                               | Color                             | White                                                                            |                          |
| 33                               | Controlling way                   | Electromagnetic speed-limitation and<br>blade overspeed speed-limitation braking |                          |
| 34                               | Input voltage                     | Matched with the wind generator                                                  |                          |
| 35                               | Voltage type                      | Three phase/AC                                                                   |                          |
| 36                               | Input frequency                   | Matched with the wind generator                                                  |                          |
| 37                               | State current                     | ≤10mA                                                                            |                          |
| 38                               | Rated output Voltage              | 24/48VDC                                                                         |                          |
| 39                               | Rated charging Current            | Matched with the wind generator                                                  |                          |
| 40                               | Rated load current                | 20~100A                                                                          |                          |
| 41                               | Inner Voltage drop                | ≤0.5V                                                                            | Inside the<br>controller |
| 42                               | Total Efficiency                  | Total generation system 28%                                                      |                          |
| 43                               | MTBF                              | 5 · 000h                                                                         |                          |
| 44                               | Anti impulse voltage              | 1.25times of wind generator's output<br>voltage/2 hours                          |                          |
| 45                               | Anti impulse current              | 1.25times of wind generator's output<br>current/2 hours                          |                          |
| 46                               | Exotherm                          | ≤40℃                                                                             |                          |
| 47                               | Output low-voltage<br>protection  | Have. The protection point can be set<br>according to requirement                |                          |
| 48                               | Output over-voltage<br>protection | Have. The protection point can be set<br>according to requirement                |                          |
| 49                               | Over-current protection           | Have                                                                             |                          |
| 50                               | Short circuit protection          | have                                                                             |                          |

|       |                                  |                                                                                                          |  |
|-------|----------------------------------|----------------------------------------------------------------------------------------------------------|--|
| 51    | Anti inverse-charging protection | Have                                                                                                     |  |
| 52    | Remote controlling               | Can provide : input voltage, out put voltage, battery voltage, charging current, load current measuring. |  |
| 53    | Communication function           | RS485/232 , dry joint                                                                                    |  |
| 54    | Alarm function                   | System malfunction alarm                                                                                 |  |
| 55    | EMC                              | /                                                                                                        |  |
| 56    | Lightingproof                    | C/ II                                                                                                    |  |
| 57    | safety                           | /                                                                                                        |  |
| 58    | Approval                         | CE,                                                                                                      |  |
| 59    | Packing details                  | Export wood ; GW: 17kgs Meas.: 49×38×27cm                                                                |  |
| Tower |                                  |                                                                                                          |  |
| 60    | Type                             | Guyed tower                                                                                              |  |
| 61    | Height                           | 10m                                                                                                      |  |
| 62    | Material                         | Seamless pipe                                                                                            |  |
| 63    | Coating                          | 0.3mm                                                                                                    |  |
| 64    | Max supporting                   | 500kg                                                                                                    |  |
| 65    | Wind resistance                  | ≥50m/s                                                                                                   |  |