




## Vertical Axis Wind Turbine Power System Model: DS300

| General Specifications      |  |                     |          |
|-----------------------------|--|---------------------|----------|
| Rated Power                 | 300W                                   | Rated Wind Speed    | 13.5 m/s |
| Rated Speed                 | 750 rpm                                | Cut in Wind Speed   | <3 m/s   |
| Cut out Wind Speed          | 15 m/s                                 | Survival Wind Speed | 60 m/s   |
| Dimensions/Weight           |  |                     |          |
| Rotor Diameter (A)          | 1.25m                                  |                     |          |
| Total Height (B)            | 1.06m                                  |                     |          |
| Tower Height (Option)       | 3 meter height minimum recommended     |                     |          |
| Turbine Weight              | 25kg                                   |                     |          |
| Rotor Specifications        |  |                     |          |
| External Darrius            | 3 Blades                               |                     |          |
| Internal Savonius           | 2 layers                               |                     |          |
| Blades Material             | Anodized Aluminum                      |                     |          |
| Rotor Axis Material         | Anodized Aluminum                      |                     |          |
| Generator Specifications    |  | Power Curve         |          |
| Generator Type              | AC, 3phase, Synchronism PMG            |                     |          |
| Rated Output                | 300W                                   |                     |          |
| Braking System              |  |                     |          |
| Automatic                   | Over speed short circuit brake control |                     |          |
| Manual                      | Electronic Switch Type                 |                     |          |
| System Operation Conditions |  |                     |          |
| Ambient Temperature         | -10~40°C                               |                     |          |
| Ambient Humidity            | 95% max.                               |                     |          |



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| <b>Specifications Of Charge Controller</b>   |  |
|--|--|
|  |  |
| <b>Model</b>   | MAX-630  |
| <b>Output</b>  | 24VDC / 12VDC  |
| <b>Functions</b>   | <ul style="list-style-type: none"> <li>● Hybrid charger (Wind 400W, PV 250W)</li> <li>● Solar panel specification for 24VDC system               <ol style="list-style-type: none"> <li>1. Open circuit voltage : 38Vdc ~ 45Vdc</li> <li>2. Rated current :10A</li> </ol> </li> <li>● Solar panel specification for 12VDC system               <ol style="list-style-type: none"> <li>1. Open circuit voltage : 19Vdc ~ 22Vdc</li> <li>2. Rated current: 10A</li> </ol> </li> <li>● MPPT (Wind) , PWM (PV)</li> <li>● Auto Brake control</li> <li>● Charge / Discharge management</li> <li>● States indicator</li> <li>● TTL232 / RS485 (option) communication port</li> </ul> |
| <b>Battery (Option)</b>  | 12V 100Ah x 2    Deep Cycle Battery or LFP Battery   |
| <b>Protection</b>  | LVP / OVP / OCP / OLP / OSP / OTP / ILP  |
| <b>LED display</b>   | Wind / Solar / Battery / load data information   |
| <b>Certification</b>   | CE   |
| <b>Dimension</b>   | 17.5 x 14.8 x 8.4 cm   |