

# WINDSIDE *WS-4B dimensions and technical info*

## Windside WS-4B technical info:

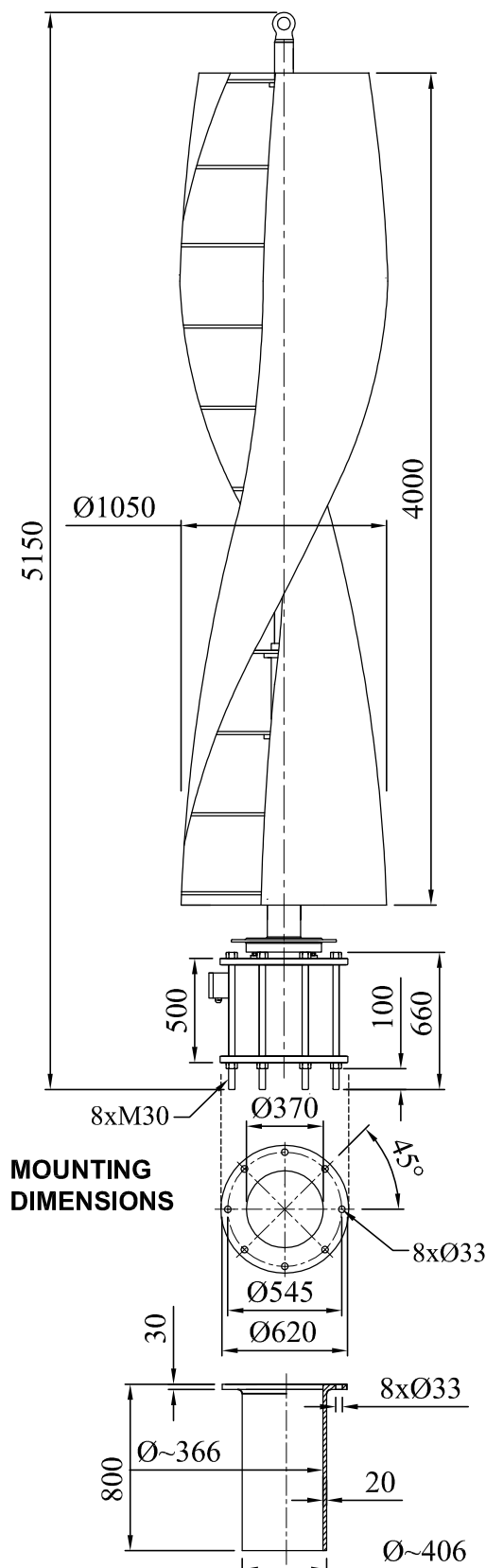
- Weight: 800 kg
- Swept area: 4 m<sup>2</sup>
- Generator: 36A in delta, 21A in star connection
- Voltage: 12V battery charging mode 15V  
24V battery charging mode 30V  
48V battery charging mode 60V
- For direct resistance load, voltage depends on use
- Fastening of the turbine with 8 pc of M30 bolts
- Wind load, side force to the middle point of the vane, Calculated 2,1 m up from the generator: 1000 kg
- The weight of the base depends on the height of the mast - in other words on the length of the torque arm.
- WS-4B-model Max 800 rpm
- WS-4B Guaranteed at constant wind speed of 40 m/s

## Materials:

- Vanes: fibre glass
- Fastenings: marine grade aluminium
- Shaft: Ø120&Ø90 mm chrome coated steel
- Generator and Generator End Plates: dip galvanized steel or marine grade aluminium
- All bolts stainless steel or dip galvanized (A4, A2 or Zn)

## Assets of Windside wind turbines:

- No need to stop or secure during storms
- Produces max. amount of energy in storms
- No need to be turned to the wind direction
- Soundless; 0 dB, measured in 2 meters distance from the vane
- Stands snow, frost, heat and humidity
- Long lifespan
- Minimum need of maintenance, only lubrication
- Safe to people, animals and nature



# windside

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