

**Part No:** EN-50KW-E

**Description:** The EN-50KW-E use permanent magnetic generator, has high-efficient energy output, is the most compact, safe and reliable horizontal axis wind turbine. The EN-50KW-E wind turbine is widely used in garden, park, farm, island and open areas. It can supply stable & sufficient electricity for the private consuming or selling to electricity grid. The EN-50KW-E wind turbine is also easy to integrate with solar panels to create hybrid generating systems.



### Design

- 1) The EN-50KW-E uses the special designed PM generator with low loss, best magnetic flux density. The special stator design reduced the torque dramatically and it help the generator start working at a low cut-in wind speed.
- 2) The EN-50KW-E use the reinforced fiberglass blades with optimized aerodynamic structural design, it help the turbine increase the working efficiency and wind energy utilization.
- 3) The rudder adopts automatic yaw design, it makes the turbines automatically and accurately align with the windward direction. This design can increase output power and the ability of resisting terrible weather.
- 4) The EN-50KW-E can withstand winds up to 45m/s by a passive aero-dynamic design. Entirely moulded wind turbine body ensures the consistent quality and reducing the vibration and noise.
- 5) Adopting intelligent tracking technology of power generating, effectively regulating current and voltage, and high conversion rate, over load protection of power generation

### Advantage



#### High outputs

55KW max. power

#### Intelligent

A Intelligent tracking technology to regulating the efficiency

#### Reliable

Precision engineer design & entire moulded components

#### Durable

Withstands storm force winds up to 45m/s, service life>10 year

#### Generator

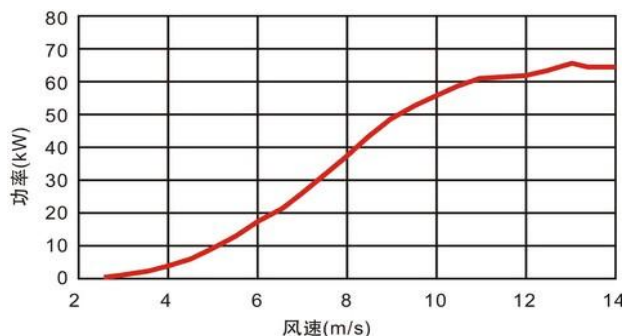
High quality, full copper coil, permanent magnetic

### Feature

#### EN-50KW-E Wind Turbine

<b>Turbine diameter</b>	: 18 meter
<b>Control system</b>	: Electronically controlled yaw protection
<b>Blade material</b>	: Reinforce fiber glass
<b>Rated output</b>	: 50KW at 10m/s
<b>Peak output</b>	: 55KW
<b>Cut-in speed</b>	: 2.5m/s
<b>Speed regulation</b>	: Electronically controller yaw
<b>Rated voltage</b>	: 360V
<b>Generator type</b>	: Permanent magnet generator

EN-50KW-E wind turbine power curve



\* Wind turbine performance is subject to many factors. All output data contained in this document is indicative and actual turbine outputs will depend on the prevailing site and installation conditions.

**ENGELEC ENERGY**

Intelligent manufacturing, Industry5.0

Email: info@engelec.cn

www.engeleccenergy.com