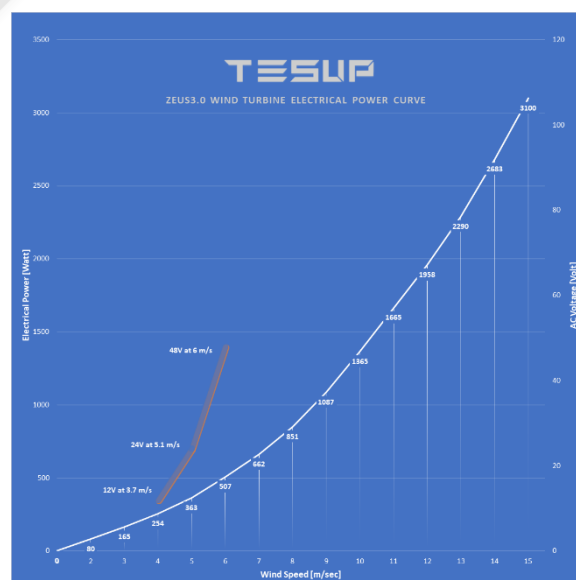


Wind is a naturally occurring and abundant resource and is one of the cleanest ways to produce electricity. Extraordinarily little processing needs to be done to convert it into clean, free energy. Operation of our wind turbines produces no pollution with no emissions, excessive noise, or waste heat by-products. Wind can be harvested with minimal impact on the environment, a particularly important factor in meeting our increasing energy needs.

SPECIFICATIONS	
DESIGNATION	TESUP Zeus3.0
GENERATOR	
TYPE	Permanent magnet rotor, brushless, gearless, maintenance- free
WEIGHT	24 kg
MAX. POWER	3.1 kW
OPERATING CIRCUIT VOLTAGE	0-143
CURRENT	3-Phase-AC
START OF CHARGING	3 m/s
HOUSING MATERIAL	Aluminium
DIRECTION OF X-Y PLATE ROTATION	Any
TEST STANDARDS	EN 61000-6-1 (electromagnetic compatibility – immunity) EN 61000-6-3 (electromagnetic compatibility – emissions)
ROTOR BLADES	
MATERIAL	Composites
HUB FLANGE	Cast Steel
DIAMETER	2.25 m
WEIGHT PER ROTOR BLADES	720 g
DIRECTION OF ROTATION	From the front in a clockwise direction
STARTING WIND SPEED	2 m/s
NO. OF BLADES	3
MAX RPM	1200
MAX SPEED	Hurricane scale III
NOISE	60 dB



- ❖ **COACTION:** Solar, Battery Storage, Main Electricity Grid, Biomass, Diesel Generator, Hydroelectric, Geothermal.
- ❖ **APPLICATIONS:** Commercial, Industrial, Agricultural, Remote locations, Off-grid power.
- ❖ **KEY BENEFITS:** Energy cost savings, No maintenance. Designed reliability, Cost effective.

OVERVIEW

Rated Power @11.5 m/s= 1820 Watts

Rated Power @15 m/s= 3100 Watts

Warranty: the 2-year product warranty

Colour: Creamy White

- ❖ Aluminium body: Perfect for heating and the cooling effect of stator
- ❖ Quieter wings: Improved wing air foils
- ❖ Movement at lower wind speeds: 3 m/s
- ❖ Double bearings: Less vibration
- ❖ Inox bearing: Stainless
- ❖ Extended tail shape: Catches the wind great
- ❖ 3 cable slip rings: This high-tech slip ring is being used in the aircraft industry

Extremely durable 3100W wind turbine of the latest generation. By help of our fabrication of fibreglass reinforced PBT plastics, the rotor blades are durable and stable, at the same time exceptionally light. The body case is equipped with cooling fins and consists of aluminium. The maintenance-free sliding contact (free from charcoal) guarantees a good current flow and thereby no twisting of the cable in the pole.

This turbine has a permanent magnet generator having strong neodymium magnets with steel slots inside. When the wind speed is over 3 m/s, the turbine will be rotating freely by exceeding this holding torque (cogging torque).

This wind turbine produces AC, please purchase a wind turbine charge controller to convert the AC to DC output to charge batteries.

Mounting of the wind turbine is carried out directly via plug connection an into a pole. An inner diameter of the required pole: 37 mm nominal size.

ACCESSORIES



MANUFACTURER

TESUP



TESUP HEADQUARTERS, 22 SUTTON
LANE NORTH CHISWICK,
LONDON W4 4LD UNITED
KINGDOM