

PRAMAC WIND

Small Wind Generators

WIND ENERGY

Wind energy is a free and clean energy that belongs to all. It is free, because it is available in nature, neither subject to market price floating, nor related to extraction process costs or fuel transport charges. It is clean, because it reduces sensibly CO2 emissions and all related environment pollutants.

Considering ongoing growth trend, driven by new policies based on renewable energy public incentives and feed-in tariffs, most realistic forecasts points out that 15% of total worldwide energy demand could be met by energy generated from wind turbines.

PRAMAC SMALL WIND TURBINES

PRAMAC is a leading company already working in the field of renewable energy technologies with its photovoltaic panels.

PRAMAC has developed, in cooperation with Philippe Starck, a range of small wind turbines which make wind energy available for residential applications and small businesses.

PRAMAC small wind turbines are the last generation of vertical-axis windmills "Darrieus" type, with a brand new attractive design. They are really efficient in domestic applications and suitable for urban area installations because they operate independent of wind direction, they can exploit even turbulent air flows and they are extremely silent in every wind speed condition.

PRAMAC small wind generators are suitable for many applications: from residential houses to tourist resorts, from streetlights to agricultural structures and everywhere they effectively cut down energy costs and reduce impact on the environment.

This is a smart way to convert wind energy into electricity and satisfy everyday energy needs through a extremely efficient and, at the same time, aesthetically appealing and noiseless tool.



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WT400W (Twin Blades) - GENERAL FEATURES

Darrieus rotor type	2-blades
Power output at wind speed 10 m/s	150W
Power output at wind speed 14 m/s	400W
Cut-in wind speed	3 m/s
Cut-off wind speed	15 m/s
Diameter x height	0,9 m x 0,9 m
Sweep area	0,81 m ²
Rotor weight (alternator included)	26 Kg
Braking system	passive
Max revolution speed	520 rpm

Alternator

Type	Permanent magnets
Phase number	3
Poles number	32
Nominal power	400W @ 14 m/s
Nominal voltage	90 Vac @ 14 m/s



WT400W (Twin Blades)

WT1kW (Triple Blades) - GENERAL FEATURES

Darrieus rotor type	3-blades
Power output at wind speed 10 m/s	410W
Power output at wind speed 14 m/s	1000W
Cut-in wind speed	3 m/s
Cut-off wind speed	15 m/s
Diameter x height	1,45 m x 1,45 m
Sweep area	2,10 m ²
Rotor weight (alternator included)	65 Kg
Braking system	passive
Max revolution speed	415 rpm

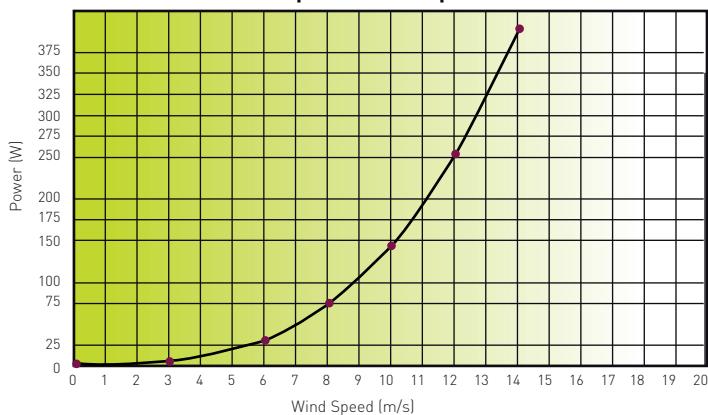
Alternator

Type	Permanent magnets
Phase number	3
Poles number	32
Nominal power	1 kW @ 14 m/s
Nominal voltage	240 Vac @ 14 m/s

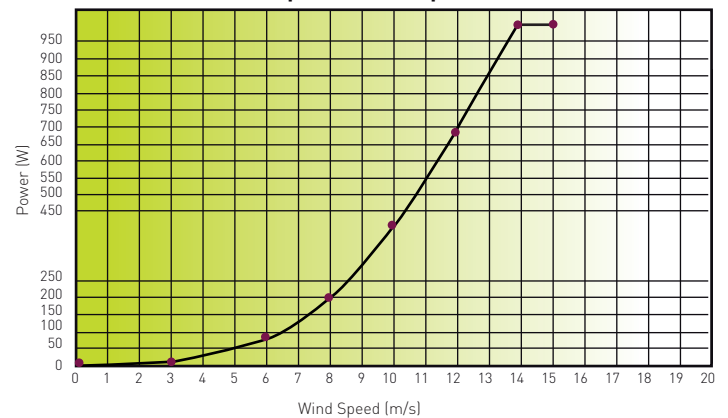


WT1kW (Triple Blades)

Power Output vs Wind Speed (WT400W)



Power Output vs Wind Speed (WT1kW)



Wind