



**WIND GENERATOR:**

**WRE.060**

The Wind Generator is a vertically driven wind rotor which demonstrates special product characteristics through its unique construction. The system could be described as a hybrid solution, building upon the Savonius and Darrieus principles.

**Benefits:**

Cut in wind speed at 2 m/s (in every position). Independent from the wind direction. Maintenance free. Truly noiseless even at high wind velocities. No cut off wind speed. Aerodynamically auto regulated rpm's. Nominal output at wind speeds of 14 m/s and higher. No electromagnetic field built-up. Storm suitability up to 56 m/s, practical experience up to 75 m/s. Very reliable, long product life. Expandable to a hybrid system including photovoltaic modules and/or gen-sets.

**WINDROTOR**

RATED OUTPUT ON AXIS (14 m/s):	6000 W
CUT-IN WIND SPEED:	2 m/s
RATED WIND SPEED:	14 m/s
ROTOR SPEED CONTROL:	Aerodynamically auto regulated
OVER SPEED CONTROL:	Not required
MAXIMUM ROTATION/MINUTE:	90 rpm at 14 m/s
CUT-OFF WIND SPEED:	None
ROTOR WEIGHT:	700 Kg
ROTOR BLADE TYPE:	Vertical Axis Wind Turbine
ROTOR DIAMETER:	3,3 M
SWEPT AREA:	14,52 mq (3,3 m x 4,4 m)
GEAR BOX TYPE:	No gaer box - direct driven
BRAKE SYSTEM:	Not required

**GENERATOR**

GENERATOR TYPE:	Permanent excited multi-pole
ELECTRICAL TRANSMISSION:	Brush less

**BATTERY CHARGER**

OUTPUT BATTERY CHARGER:	48 VDC
OUTPUT MSP ON-GRID:	2x215 VAC / 230 VAC - 50 HZ-60

**LIMITED WARRANTIES**

PRODUCT WORKMANSHIP:	2 years
RATED OUTPUT (at 14 m/s):	15 years

**TYPICAL PERFORMANCE\***

AVERAGE WIND 5m/s:	Annual energy output 3051 kwh
AVERAGE WIND 7m/s:	Annual energy output 7608 kwh
AVERAGE WIND 9m/s:	Annual energy output 12861 kwh
AVERAGE WIND 11m/s:	Annual energy output 17469 kwh

\* Sea level, Weibull K 2, mast 10 m, anemometer 10 m. Usable energy production depends on the configuration of the system. A typical situation is the Wind Generator with a battery charger and batteries. Due to losses in wiring, battery charger and batteries the efficiency can differ from 65% to 80%.

All data about the annual energy output are based on assumptions and may differ depending on the actual location of the Wind Generator.

Potency curve:

