

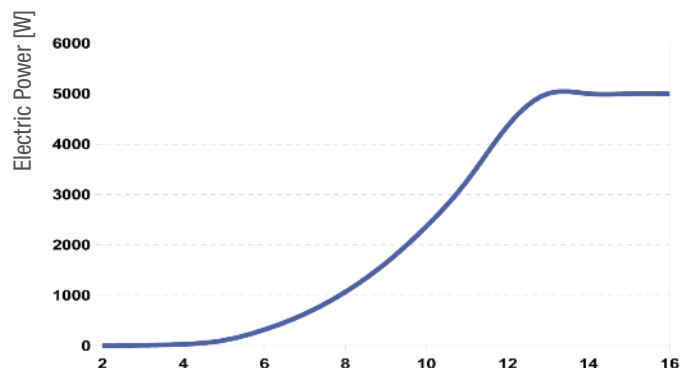
SILENT V

“ No wind is favorable for those who do not know where to go, but for us that we know, even the breeze will be invaluable ”
Rainer Maria Rilke

EFFICIENCY



Annual average wind speed [m/s]



Wind speed [m/s]

The production of energy takes account of a probability of wind calculated by a Rayleigh distribution, determined by the value of the average wind speed and the Weibull shape factor equal to 2.

CHARACTERISTICS

Rotor

External diameter: 4,4 mt
Height: 5mt
Material: Aluminum Alloy

Generator

Type: permanent magnet synchronous
Power: 5,5 kW @ 120RPM
Output: three phase 400V

Inverter

Power: 5 kW
Connection: single-phase 230V
Strategy: MPPT
Certification: CEI 0-21

Safety brake

Type: negative mechanical springs
Drive: hydraulic positive safety

Environmental conditions

Operative temperature: -20 / +50 C
Relative humidity: 0/90%
Resistance in saline environment: excellent
Resistance to sand: excellent

Performances

Cut in wind: 3 m/s
Cut out wind: 25 m/s
Wind rating: 12 m/s
Nominal electrical power: 5 kW
Maximum Wind: 45 m/s
Class: IV IEC 61400-2
Acoustic emission: < 50 dbA

Switchboard

Protection: IP65



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