



G. FERON

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TECHNICAL DESCRIPTION

Hybrid wind-solar system with generator mod. 7902, off grid, and 2 photovoltaic panels.
Photonics system, 200W each; 4 gel batteries, 200 A/h each; inverter 230V 50Hz.

MICRO WIND TURBINE 2KW OFF GRID

WIND TURBINE GENERATOR 2KW OFF GRID SYNCHRONOUS 3-PHASE GENERATOR WITH PERMANENT MAGNETS

Axis type	Horizontal
Nominal power	2kw
Blade diameter	4 m
Turret height	9m
Swept area	12.56 m2
Blade material	fibreglass
Start-up wind speed	3 m/s
Nominal wind speed	9 m/s
Working wind speed	4-25 m/s
Safety wind speed	50 m/s
Nominal rotation speed	360 rpm
Wind orientation	downwind
Nacelle weight	130 kg
Speed adjustment	variable blade pitch
Safety device	Electrical braking variable blade pitch

TOWER

Material	Galvanised steel
Type	tubular pipe with tie rod
No. of sections	2
Height	9 m

NOTES

Downwind rotor
Centrifugal adjustment of the blade pitch for
constant yield
Off grid inverter

BATTERIES

Each battery has the following features:

Nominal voltage	12V
Nominal power	200 A/h
Weight	74 kg
Height	214 mm
Length	600 mm
Width	172 mm

REFERENCE STANDARDS

CEI IEC 61400-2: Design requirements for small
wind turbines EN 55011: 2007



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