HG.NO

F-5

5 kW • 380 V AC

Wind turbine • On-grid • three-phase AC • HAWT (horizontal axis)

RATED POWER	VOLTAGE	ROTOR	CUT-IN WIND SPEED	WEIGHT
5.0 kW	**380 V AC**	**4.8 m**	**2.5 m/s**	**200 kg**



Key features

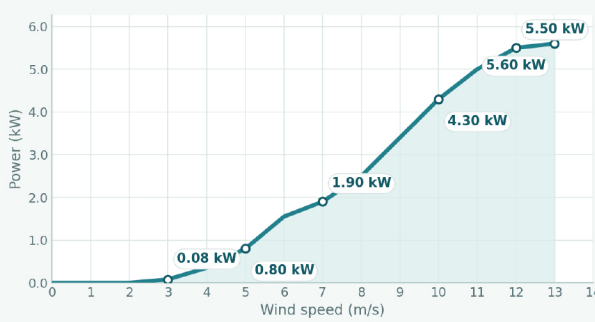
- 5 kW rated power for residential, agricultural and small commercial projects.
- 4.8 m rotor with a swept area suited to the 5 kW class.
- Low cut-in wind speed of 2.5 m/s.
- PMG generator and 3 fibreglass blades in a conventional HAWT configuration.

Applications: on-grid and hybrid projects, farms, technical facilities and sites with good wind exposure.

Technical data

Model	F-5
Rated power	5 kW
Maximum power	5.1 kW
Rated voltage	380 V
Cut-in wind speed	2.5 m/s
Rated wind speed	12 m/s
Survival wind speed	45 m/s
Rotor diameter	4800 mm
Number of blades	3
Blade material	Reinforced fibreglass
Generator	Three-phase permanent-magnet AC generator
Generator housing	Cast aluminium
Operating temperature	-40 °C to 80 °C
Weight (approx.)	200 kg
Certificates	CE

Power curve



Reference points are indicative. Actual output depends on the site and airflow.

5.0 m/s	**0.80 kW**
7.0 m/s	**1.90 kW**
10.0 m/s	**4.30 kW**
12.0 m/s	**5.50 kW**

Important: On-grid operation requires a dedicated wind turbine controller and a wind-compatible inverter. Operation without a controller is not permitted. Energy production depends directly on local wind conditions. In practice, horizontal-axis wind turbines (HAWT) usually provide steadier generation above approximately 4-5 m/s, with the best results in smooth airflow. Frequent turbulence from buildings, trees or terrain can reduce yield, as is typical of HAWT operation.