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F-2

2 kW • 48 V AC

three-phase AC • HAWT (horizontal axis)

RATED POWER	VOLTAGE	ROTOR	CUT-IN WIND SPEED	WEIGHT
2.0 kW	**48 V AC**	**3.2 m**	**2.5 m/s**	**60 kg**



Key features

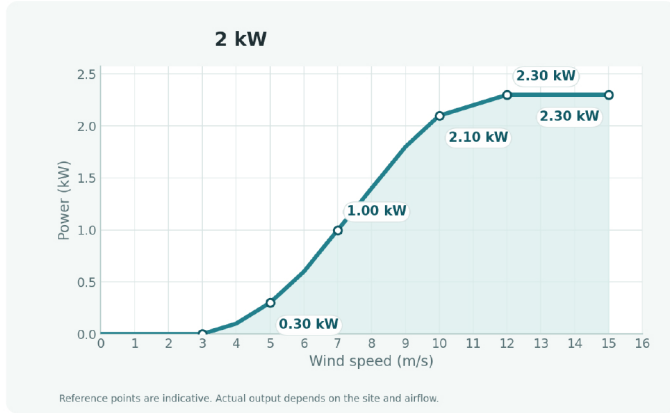
- 2 kW rated power for off-grid installations for homes and small properties.
- 3.2 m rotor for efficient operation even at moderate wind speeds.
- Gearless PMG generator for high efficiency and low starting torque.
- NSK bearings and a reinforced structure for durability and stable long-term operation.

Applications: off-grid and PV hybrid systems, holiday homes on open sites, small technical facilities and small commercial projects (subject to system design).

Technical data

Model	F-2
Rated power	2000 W
Maximum power	2300 W
Rated voltage	48 V
Cut-in wind speed	2.5 m/s
Rated wind speed	10 m/s
Survival wind speed	45 m/s
Rotor diameter	3.2 m
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
Net weight	60 kg
Certificates	CE

Power curve



5.0 m/s	**0.30 kW**
7.0 m/s	**1.00 kW**
10.0 m/s	**2.10 kW**
12.0 m/s	**2.30 kW**

Important: A battery charge controller with a wind turbine input is required; operation without a controller is not permitted. Steadier generation typically starts at around 5-6 m/s; tower height and smooth, unobstructed airflow are key.