

# Bring Green Energy to Your Home, Add Value to the World



## SoyutWind 1 kW

1 kW Home Wind Turbine is the perfect starting point for any family looking to transition to green energy.



**SoyutWind 1 kW**, with a rated power of 1 kW and a rotor diameter of 2 meters, delivers a reliable energy solution for small-scale applications. Its compact and durable design ensures long-term advantages with minimal operational costs, making it ideal for residential, small business, and off-grid use.

► This turbine is designed to deliver efficient power output while maintaining low noise levels, making it suitable for urban and rural environments. It starts generating electricity at wind speeds as low as 3 meters per second, making it effective even in low wind areas.

### Key Benefits

#### ► Efficient and Low Maintenance

The Permanent Magnet Generator (PMG) technology optimizes energy capture and eliminates the need for complex gear systems, resulting in lower maintenance costs and greater efficiency.

#### ► Tailored for Low to Medium Wind Conditions

SoyutWind 1 kW is engineered for areas with low to medium wind speeds, working efficiently where the average wind speed is between 3 to 6 m/s.

#### ► Compact and Reliable

Its compact size and reinforced blades ensure long-term reliability, making it durable enough to withstand a variety of weather conditions, ideal for residential or small-scale applications.

#### ► Off-grid or Grid-Tied Connection

Suitable for off-grid systems or grid-tied setups, SoyutWind 1 kW can be easily integrated with existing energy systems.

### 2 Year Warranty

Our warranty covers the turbine for up to 2 years, with service plans that can extend up to 5 years. A variety of service packages are available to accommodate different customer requirements.

## SPECIFICATIONS

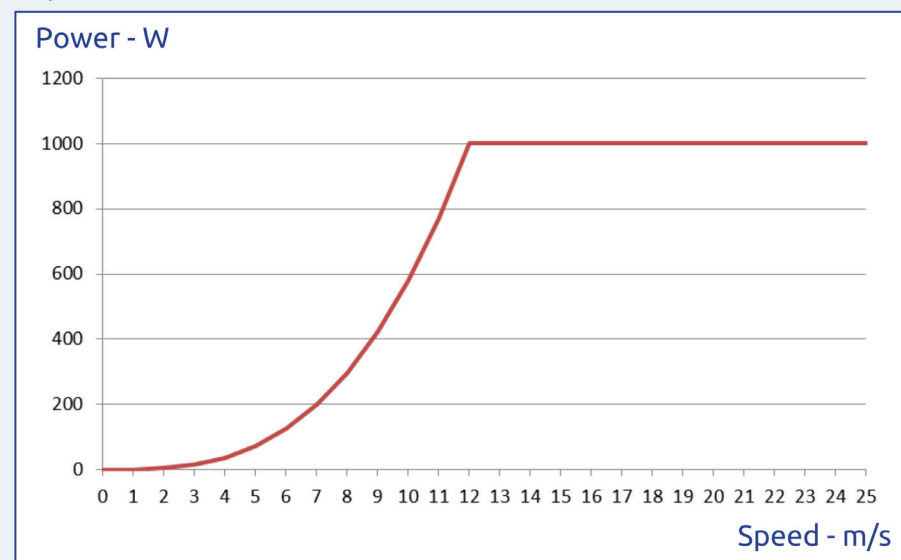
### SoyutWind 1 kW

#### Off Grid System

Rated Wind Speed	12 m/s
Cut-in Wind Speed	3 m/s
Cut-out Wind Speed	25 m/s
Rotor Diameter	2 m
Swept Area	3,14 m <sup>2</sup>
Tower Height	5 m - 6,5 m
Operating Temperature	-30°C – + 50°C
Blade Type	Fiberglass Composite
Tower Type	Steel Pole
Yaw System	Furling
Gearbox	No
Control System	PLC
Brake	Electromagnetic
Alternator	3 Phase Permanent Magnet (PMG)
Voltage	110/220/400 VAC - 50/60 Hz
Wind Speed Sensor	Yes
Temperature Sensor	Yes
Remote Control and Monitoring	Yes
Lightning Protection	Yes
Battery Voltage	12V-24V-48V



SoyutWind 1 kW Power Curve



Wind Speed (m/s)			0	1	2	3	4	5	6
Power (W)			0	0.6	5	16	37	72	125
7	8	9	10	11	12	13	14	15-25	
199	297	422	579	771	1000	1000	1000	1000	



**Factory:**

Cumhuriyet Mahallesi Eskişehir Yolu 55. km  
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