

# Horizontal-Axis Wind Turbine

SE1200KWGW – 1200kW HAWT

BREATHE Systems® provide large-scale wind turbines ideal for coastal, mountainous, high-wind and off-shore applications. We provide site surveying, plant design, project managers, project engineers, labor for installation, on-going 24-Hour technical support and on-site application engineers.

ITEM	DESCRIPTION	UNIT	SPECIFICATION
<b>1</b>	<b>Wind Turbine</b>		
1.1	Rated Power	kW	1200
1.2	Cut-In Wind Speed	m/s	3
1.3	Rated Wind Speed	m/s	12
1.4	Cut-Out Wind Speed (10 minutes average)	m/s	25
1.5	Survival Wind Speed (3 seconds average)	m/s	59.5 (IEC II)
1.6	Life Time	Years	20
<b>2</b>	<b>Blade</b>		
2.1	Rotor Diameter	m	62
2.2	Rotational Speed	rpm	11/20
2.3	Material		Glass Fiber Reinforced Plastic
2.4	Swept Area	m <sup>2</sup>	3019
<b>3</b>	<b>Generator</b>		
3.1	Type		Multiple Synchronous Generator; Permanent Excited
3.2	Rated Power	kW	1200
<b>4</b>	<b>Brake System</b>		
4.1	Primary Brake System		3 Aerodynamic Tip
4.2	Secondary Brake System		Brake system on generator (for service)
<b>5</b>	<b>Yawing System</b>		
5.1	Type		Active yawing
5.2	Speed	Deg/Sec	0.5
<b>6</b>	<b>Pitch Control System</b>		
6.1	Type		Asynchronous Generator
6.2	Control		Computer
6.3	Bearing		Four Points Ball Bearing
<b>7</b>	<b>Tower</b>		
7.1	Type		Steel Tubular (Ladder and Safety Protection Inside)
7.2	Height	m	70 (Hub height)
<b>8</b>	<b>Weight</b>		
8.1	Nacelle (excluding rotor and generator)	T	10
8.2	Generator	T	40
8.3	Rotor	T	30



5-Year Warranty



“bringing renewable  
& efficient alternatives  
to home environments”

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