

# Horizontal-Axis Wind Turbine

SE0600KWGW – 600kW 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	600
1.2	Cut-In Wind Speed	m/s	3.2
1.3	Rated Wind Speed	m/s	15
1.4	Cut-Out Wind Speed (10 minutes average)	m/s	25
1.5	Cut-Out Extreme Wind Speed (5 seconds average)	m/s	30
1.6	Survival Wind Speed (3 seconds average)	m/s	70 (IEC I)
1.7	Life Time	Years	20
<b>2</b>	<b>Blade</b>		
2.1	Rotor Diameter	m	43
2.2	Rotational Speed	rpm	17.9/26.8
2.3	Material		Glass Fiber Reinforced Plastic
2.4	Length	m	19.1
2.5	Swept Area	m <sup>2</sup>	1466
<b>3</b>	<b>Gearbox</b>		
3.1	Type		FL600
3.2	Steps		Three stage with planetary and spur gear
3.3	Ratio		56.56
<b>4</b>	<b>Generator</b>		
4.1	Type		Two-speed Asynchronous Generator
4.2	Rated Power	kW	600/125
4.3	Rated Voltage	V	690
<b>5</b>	<b>Brake System</b>		
5.1	Primary Brake System		3 Aerodynamic Tip
5.2	Secondary Brake System		2 Brake Discs on High-Speed Shaft
5.3	Protection Modality		Invalidation-safety protection
<b>6</b>	<b>Yawing System</b>		
6.1	Type		Active yawing
6.2	Bearing		Internal Gear Ring Four Points Ball Bearing (Zero Movement Space)
6.3	Speed	Deg/Sec	0.34
<b>7</b>	<b>Tower</b>		
7.1	Type		Steel Tubular (Ladder and Safety Protection Inside)
7.2	Height	m	40/50
<b>8</b>	<b>Weight</b>		
8.1	Nacelle	T	23
8.2	Rotor	T	13



specifications are subject to change without notice



5-Year Warranty



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to home environments”

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www.breathesystems.com

Switzerland +41 44 586 77 00 | UK +44 121 288 8383 | USA +1 646 217 0888 | Hong Kong +852 8197 2777 | Australia +61 7 3103 3357