

General Configuration		Materials	
Nameplate capacity	70kW <sup>1</sup>	Material	99% galvanized steel and aluminum
Turbine Type	Vertical Axis Wind Turbine (H-Type)	Blade	Extruded aircraft aluminum (6061 T6)
		Power/Brakes	
Configuration of array	2+ turbines with 1m (3') gap	)	
		Generator type	Permanent magnet (PMG)
Height at top of blade (Options)	17.5m; 22.5m; 26.5m (57'; 74'; 87')	Electrical output	480V 3-phase, 60 Hz²
Height at bottom of	4.5m; 9.5m; 13.5m	RPM range	30-55
blade (Options)	(15'; 31'; 44')	Power regulation type	
l enath of blade	13m (42 7')	(pitch, stall, fulring, etc.)	Stall and electromagnetic
Longarorbiddo		Failsafe brakes	Electromagnetic, caliper and resistor
Rotor diameter	13m (42.7')	Performance	
Number of blades	3		1
	5	Rated wind speed	11m/s (25mph)
Swept area	169 m² (1820 sq ft)	Cut-in wind speed	5m/s (11mph)
Tower type	Steel lattice, monopole or wooden	Cut-out wind speed	25m/s (56mph)

## Projected Annual Energy Production<sup>3</sup> with Coupled Vortex Effect<sup>4</sup>

MWh/MW

Capacity Factor

*MWh/yr/turbine* 



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29.5% 6.5 (14.) 181 2,586 7.0 (15.7) 210 3,000 34.2% 7.5 (16.8) 235 38.3% 3.357 8.0 (17.9) 260 42.4% 3,714 Power Curve 100



 <sup>1</sup> Nameplate capacity can vary between 50kW and 75kW depending on conditions.
<sup>2</sup> Electrical output can be adjusted to 400V 3-Phase, 50Hz for EU requirements.
<sup>3</sup> AEP based on Model 3.1 prototype.
<sup>4</sup> CVE requires two or more turbines in a closely spaced array.

<sup>5</sup> See windharvest.com/wind-harvest-blog for more information on Model 3.1.