





High quality components

We supply and fit the Fortis range of wind turbine for both on and off Grid systems. All systems are commissioned to BS7671, G83 and when required G59.

Fortis Technical Specification				
Eco Heat & Power	Eco _{we} 800	Eco _{we} 1,400	Eco _{we} 5,000	Eco _{we} 10,000
Rating: 800 W - 10kW				
Model	Espada	Passaat	Montana	Alize
Type	Upwind rotor with variable pitch			
Maximum power₁	800 Watt	1.4 kW	5 kW	10 kW
Rated wind speed	17 m/sec	16 m/sec	17 m/sec	13 m/sec
Cut-in wind speed₂	3 m/sec	3 m/sec	2.5m/sec	3 m/sec
Output at 10 m/sec	480 Watt	0.95 kW	2.7 kW	6.6 kW
Rotor diameter	2.2 m	3.12 m	5 m	7 m
No. of Blades	2	3	3	3
Swept area	3.8 m ²	7.65 m ²	19.63 m ²	38.5 m ²
Blade material	Fibre glass reinforced epoxy			
Yaw control	Passive aligned by tail vane			
Speed regulation	Safety system by hinged vane which will gradually turn the rotor out of the wind, controller with dump load PWM switching and a short circuit system for the generator			
Rated RPM	240 - 1000	180 - 775	120 - 450	25 - 300
Generator Type	Permanent NE-Fe-Br magnets producing 3 phase AC			
Battery voltage	Available for 12v, 24v, 48v or 120v			
Grid feed inverter	1 x 230v	1 x 230v	1 x 230v	1 x 230v or 3 x 400v
Tower height	12 - 18 m	12 - 18 m	12 - 18 m	18 - 36 m
Standard tower	12 m guyed wire	12 m guyed wire	18 meter guyed wire	24 meter guyed wire
Optional tower	Lattice tower 15-18 m	Lattice tower 15-18 m	Free standing pole 15 - 18 m	Free standing pole 24 m
Weight	52 kg	75 kg	200 kg	540 kg
Manufacturer details	Supplier and producer of wind turbines for over 25 years with many worldwide installations. Working in close corporation with Dutch Technical Universities, Colleges and the Netherlands Energy Research Foundation ensures they are at the forefront of wind turbine design.			
Main features	<ul style="list-style-type: none"> ➤ 5 years guarantee ➤ Average lifetime for wind turbine is over 20 years ➤ Maintenance free ➤ Wind turbines from 800 Watt up to 10 kW (bigger models information on request) ➤ Low cut-in wind speed ➤ High performance/price ratio ➤ Direct drive ➤ Automatic furling safety system ➤ Free standing, lattice tower or guyed pole ➤ Electric brake switch 			
<p>1. Maximum power output at the rated wind speed 2. 1 metre/second = 2.24 miles per hour = 3.6 kilo metres per hour</p>				
<p><u>Eco Heat & Power Ltd 2 Sandbed, Hebden Bridge, West Yorkshire HX7 6PT</u> <u>Tel. 01422 843414 E-mail Sales@ecoheat.co.uk</u></p>				