






Fortis Product Overview

TECHNICAL SPECIFICATION SHEET			
			
Model	Passaat	Montana	Alizé
Type	Upwind rotor with fixed pitch		
Maximum power ¹	1.4 kW	5.8 kW	10 kW
Rated wind speed	16 m/sec	17 m/sec	13 m/sec
Cut-in wind speed	2.5 m/sec	2.5 m/sec	3 m/sec
Output@11m/sec	0.9 kW	3.4 kW	8.5 kW
Rotor diameter	3.12 m	5.0 m	6.3 / 6.7 m
Number of blades	3	3	3
Swept area	7.64 m ²	19.63 m ²	31.16 m ² / 35.24m ²
Blade material	Fibreglass-reinforced epoxy		
Yaw control	Passive aligned by tail vane		
Speed regulation	Ecliptic safety system by inclined hinged vane, 90 degree setting of tail, short circuit of generator		
RPM operation range	180 - 775	120 - 450	25 - 300
Generator Type	Permanent Ne-Fe-Br magnets producing 3 phase AC		
Battery protection	Controller with dump load PWM switching		
Battery regulator	Available for 24V, 48V installations	Available for 48V, 240V installations	Available 240V installations
Grid feed inverter	1x 230V	1x 230V or 3x 230V	3x 230V or 3x 400V
Guyed tower	12-24 m	12-24 m	12-30 m
Free standing tower	12-18 m	12-24 m	12-24 m
Head weight	75 kg	200 kg	385 kg
Unique features	Quietest Turbine in the Industry Maintenance free Over 6,400 Fortis wind turbines installed world wide 30 years of Environmentally Friendly design & Manufacturing experience Easy installation 5 years warranty Average lifetime for wind turbine is over 20 years		
^{1]} maximum power output @ rated wind speed			