







## Fortis Product Overview

### TECHNICAL SPECIFICATIONS

				
<b>Model:</b>	<b>Passaat</b>	<b>Montana</b>	<b>Montana-Q</b>	<b>Alizé</b>
Type	Upwind rotor with fixed pitch			
Maximum power <sup>1</sup>	1.4 kW	5.0 kW	6.0 kW	10 kW
Rated wind speed	16 m/sec	14 m/sec	12,5m/sec	13 m/sec
Cut-in wind speed	2.5 m/sec	2.5 m/sec	2.5 m/sec	3 m/sec
Output@11m/sec	0.9 kW	3.4 kW	4.45 kW	8.5 kW
Rotor diameter	3.12 m	5.0 m	5.25 m	6.3 / 6.6 / 6.9 m
Number of blades	3	3	3	3
Swept area	7.64 m <sup>2</sup>	19.63 m <sup>2</sup>	21.63m <sup>2</sup>	31.2 m <sup>2</sup> / 34.2m <sup>2</sup> / 37.4m <sup>2</sup>
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	120 - 450	25 - 300
Generator Type	Permanent Ne-Fe-Br magnets producing 3 phase AC			
Battery regulator	Available for 24VDC / 48VDC	Available for 48VDC	Available for 48VDC	
Grid feed inverter	1P-230VAC+N+PE	1P-230VAC+N+PE	3P-230VAC+N+PE	3P-230VAC+N+PE
Guyed tower	12-18 m	12-24 m	12-24 m	18-30 m
Free standing tower	12-18 m	12-24 m	12-24 m	12-24 m
Head weight	75 kg	200 kg	210 kg	385 kg
Unique features	<ul style="list-style-type: none"> <li>• Conforms to IEC 61400-2 international standard</li> <li>• Upwind, direct drive, fixed pitch, overvoltage protection and emergency braking</li> <li>• Rectifier &amp; Grid Feed Inverter in one housing</li> <li>• Power curve according to frequency or voltage</li> <li>• Maintenance free, 5 year warranty, installation by Fortis Certified System Partner</li> <li>• Average lifetime for Fortis Wind Turbines is over 20 years</li> <li>• Made in The Netherlands</li> </ul>			

<sup>1</sup>] maximum power output @ rated wind speed