



Wind Solutions Ltd.

***Wind Resource
Free energy
“0” pollution***

***HS-250kW30
HS-750kW50***

www.windsolutions.ca



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Technical Data

Model	HS-250kW30	HS-750kW50
Number of blades	3	3
Blade material	Glass-fiber reinforced resin	Glass-fiber reinforced resin
Rotor speed	40.33rpm	22.5rpm
Rotor Diameter	26m	48.8m
Cut-in Speed	4m/s	3.5m/s
Cut-out Speed	26m/s	25m/s
Rated Wind Speed	15m/s	14m/s
Survival Speed	60m/s	60m/s
Weight	12.4t	36.7t
Gearbox		
Type	Splash lubrication	Pressure forced lubrication
Gear Ratio	1:25.17	1:67.40
Weight	1.95t	5.7t
Generator		
Type	Single-winding induction generator	Single-winding induction generator
Power	250kW	750kW
Voltage	400V	690V
Speed	1000rpm	1520rpm
Rated Frequency	50Hz	50Hz
Insulation class	F	F
Weight	1.5t	4.4t
Brake system		
Main brake system	3 tip aerodynamic brake	3 tip aerodynamic brake
Second brake system	Low speed four-axis mechanical brake hydraulic brake caliper	High-speed shaft 2 mechanical brakes
Brake protection	Hydraulic release / Pressure brake	Hydraulic release / Loss pressure brake
Yaw system		
Type / Design	Motor drive / Cycloid reducer	Motor drive / 4 planetary reducer
Control	Take the initiative to wind / computer control	Take the initiative to wind / computer control
Controller System		
Main controller system	Distributed control system	Mita
Soft and network devices / types	SCR	SCR
Grid Voltage	400V	690V
Grid Frequency	50Hz	50Hz
Compensation capacity	6x15 Kvar	28 Kvar
Tower Height	30M	50M