



GW150-3.0MW

PMDD Smart Wind Turbine

Turbine Features

Lightweight design

Novel design and compact structure Small size and light weight facilitate transportation and installation

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Low O&M cost

No slip ring and carbon brush maintenance cost No gearbox oil inspection and maintenance cost

Outstanding energy production at low wind speeds

Wide rotor speed range for grid connection and high conversion efficiency at low wind speeds

Full power converter and superior

grid connection performance Excellent fault ride-through capability and possess zero voltage ride-through capability

Capable of reactive power output, reducing the concentration of reactive compensation investment



High reliability

No worry of gearbox failure Main bearing designed with good adaptability to ultralow wind speeds



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Operating parameters		
Rated power	MW	3
Wind turbine class	IEC	S
Cut-in wind speed	m/s	2.5
Rated wind speed (static power curve, standard air density)	m/s	9
Cut-out wind speed	m/s	18
Design service life	Year	≥ 20
Operating temperature	°C	- 30℃ ~ +35(40)℃
Survival temperature	°C	- 40℃ ~ +50℃
Rotor system		
Rotor diameter	m	150
Swept area	m²	17671
Generator		
Туре	\	Permanent magnet synchronous generator
Rated voltage	V	760
Converter		
Туре	\	Full power converter
Power factor regulation range	\	Capacitive 0.95 ~ inductive 0.95
Rated output frequency	Hz	50/60
Rated output voltage	V	690
Brake system		
Brake System		
Aerodynamic brake system	λ	Aerodynamic brake via feathering

Type/Design	١	Motor-driven/Four-stage planetary gear reducer
Yaw brake	\	Hydraulic brake
Control system and lightning	g prote	ection
Туре	\	PLC control system
Lightning protection design standard	١	IEC61400/24-2010、 IEC62305-2006 standards GL certification standards
Lightning protection measures	١	Direct lightning strike protection and lightning electromagnetic impulse protection
Wind turbine ground resistance	Ω	The power frequency grounding resistance R for each Wind Turbine should be less than 4 Ω
Tower	·	
Tower type	\	Steel tower
Hub height	m	95/100/140
Tower type	\	Concrete-steel hybrid tower
Hub height	m	120/140
Weight		
Blade	t /p	16.7
Rotor (excluding blades)	t	37.8
Nacelle	t	27.1
Generator	t	67
Dimension		
Blade length	m	73.2
Rotor (excluding blades)	m	Φ4.7, 4.7 high
Nacelle	m	6.9×4.5×5.8
Generator	m	Φ5.0×1.6, 3.7 shaft length

- 1. Blade
- 2. Pitch system
- 3. Hub
- 4. Generator rotor
- 5. Generator stator
- 6. Generator Switch Cabinet
- 7. Yaw system
- 8. Wind sensors
- 9. Generator cooling system
- 10. Nacelle cover
- 11. Nacelle base
- 12. Tower

