

The Siemens logo, consisting of the word "SIEMENS" in a bold, teal, sans-serif font.

Ingenuity for life

Wind Turbine SWT-6.0-154

Technical specifications

Product Name: SWT-6.0-154

Application: Offshore

Technology: Direct Drive

Wind Class: I A

Rotor

Type	3-bladed, horizontal axis
Position	Upwind
Diameter	154 m
Swept area	18,600 m ²
Speed range	5 - 11 rpm
Power regulation	Pitch regulation with variable speed
Rotor tilt	6 degrees

Blade

Type	Self-supporting
Blade Length	75 m (B75)
Aerodynamic profile	Siemens proprietary airfoils, FFA-W3-XXX
Material	GRE
Surface gloss	Semi-gloss, < 30 / ISO2813
Surface color	Light grey, RAL 7035

Aerodynamic Brake

Type	Full span pitching
Activation	Active, hydraulic

Mechanical Brake

Type	Hydraulic disc brake
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Canopy

Type	Totally closed
Surface gloss	Semi-gloss, 25-45 / ISO2813
Color	Light grey, RAL 7035
Material	Fire retardant GFRP with integrated EMC shielding

Generator

Type	Synchronous, PMG, direct drive
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Grid Terminals (LV)

Nominal Power	6,000 kW
Voltage	690 V
Frequency	50 Hz

Yaw System

Type	Active
Yaw bearing	Externally geared
Yaw drive	Electric gear motors
Yaw brake	Passive friction brake

Controller

Type	Microprocessor
SCADA system	WPS
Controller designation	WTC 3.0

Tower

Type	Cylindrical and tapered tubular
Hub height	Site-specific
Corrosion protection	Painted
Surface gloss	Semi-gloss, 25-45 / ISO2813
Color	Light grey, RAL 7935

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Operational data

Cut-in wind speed	3 - 5 m/s
Nominal power at	12 - 14 m/s
Cut-out wind speed	25 m/s
Maximum 3 s gust	70 m/s (IEC version)

Weights (approximate)

Towerhead mass	360 tons
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