

TECHNICAL SPECIFICATIONS

EOX S-16 Class III wind turbine

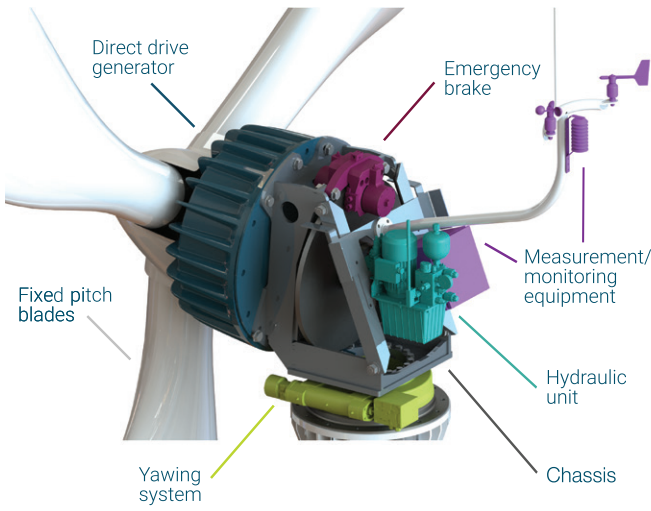
CHARACTERISTIC		SPECIFICATION
Main Data	Model	EOX S-16
	Design class	IEC Class IIIA wind turbine
	Design life	30 years minimum without major component replacement
	Rated power	25 kW
	Rated wind speed	Average annual wind speed: 7.5 m/s (27 km/h)
	Cut-in Cut-out wind speed	2.75 m/s (9.9 km/h) 20 m/s (72 km/h)
	Extreme wind speed	52.5 m/s (189 km/h), 3-second average
	Operating temperature	-20 °C to 40 °C (-4 °F to 104 °F)
	Lightning protection	Lightning rod, surge protection devices, grounding system
	Certifications	IEC 61400-2, MCS, AWEA 9.1, UL1741, CE, CSA 22.2, G59/3
Rotor	Rotor diameter	15.8 m (51.8 ft)
	Swept area	196.3 m ² (2112.9 ft ²)
	Rotor speed	Variable, up to 53 rpm
Generator	Type	Transverse flux synchronous permanent magnet generator Eocycle-C5000
	Model	3-phase
	Generator	25 kW, 415 V, 42.4 Hz, 1.25 service factor
	Drivetrain	Direct drive (no gearbox)
	Generator enclosure and insulation	Totally enclosed, weather-proof, class F insulation, IP56, maintenance free
Power Converter	Type	Grid-tied / utility-interactive
	Converter model	ABB ACS800-11
	Converter output	3-phase, 380 V to 500 V, 50/60 Hz, 60A, Power Factor 0.99
Control System	Controller model	MitaTeknik WP130 MK II
	Advanced features	Data logging and direct integration with safety system
	SCADA/Monitoring system	MiScout, web and mobile application
	Control strategy	Maintenance free active stall-regulated
	Weather sensors	Wind speed, wind direction, temperature
Yaw System	Type	Active hydraulic slew drive
Materials	Steel components	High quality, as per ASTM standards
	Corrosion protection	Hot-dip galvanized or zinc-coated, as per ASTM standards
Braking System	Normal operation	Combination: 1) generator 2) stall blade design 3) yaw-assist
	Emergency rotor brake	Fail-safe hydraulic disk brake
Blade	Model	Eocycle
	Design	Fixed-pitch (no moving parts)
	Length	7.6 m (24.9 ft)
Tower	Hydraulic tower - hub height	16.8 m (55.1 ft) or 23.8 m (78.1 ft)
	Finish	Galvanized, white paint

Performance and reliability, hassle-free

The EO25 is a modern wind turbine with high reliability due to an ultra simple design with extraordinarily few moving parts. It is designed and manufactured by Eocycle. Its market-leading efficiency (thanks to its patented TFPM generator) means very high electricity production and low-cost energy. No other wind turbine on the market comes anywhere close to matching the performance of the EO25.

The EO25's simplicity includes the elimination of the gearbox and blade-pitching. It is fully independent in its operations, utilising a self-monitoring system. Through a live internet connection, Eocycle also remotely monitors and manages settings, updates, and more from the operations center in North America.

The EO25 is well protected against lightning and corrosion, and all third-party components are proven, off-the shelf, and from renowned suppliers.



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Technical specifications

	EO25 Class III
RATED POWER	25 kW
RATED ANNUAL AVERAGE WIND SPEED	7.5 m/s (27 km/h 17 mph)
CUT-IN WIND SPEED	2.75 m/s (10 km/h 6 mph)
CUT-OUT WIND SPEED	20 m/s (72 km/h 45 mph)
EXTREME WIND SPEED	52.5 m/s (3-second average)
BLADE LENGTH	7.6m (25ft)
DESIGN LIFE	30 years
HUB HEIGHT - HYDRAULIC TOWER	24.6m (81ft)
WIND TURBINE CERTIFICATIONS	IEC 61400 (2,11,12), AWEA 9.1, MCS
ADDITIONAL CERTIFICATIONS	UL1741, CSA 22.2, CE, G59/3, ISO 9001

Annual Energy Production*

EO25 Class III	
ANNUAL AVERAGE WIND SPEED	ANNUAL ENERGY PRODUCTION (KWH)
4.0 m/s (14 km/h 9 mph)	41 140
4.5 m/s (16 km/h 10 mph)	55 910
5.0 m/s (18 km/h 11 mph)	70 920
5.5 m/s (20 km/h 12 mph)	85 460
6.0 m/s (22 km/h 13 mph)	99 000
6.5 m/s (23 km/h 15 mph)	111 200
7.0 m/s (25 km/h 16 mph)	121 860
7.5 m/s (27 km/h 17 mph)	130 870

*Certified to IEC 61400-2 global standard by independent third-party