

## The EOX M-26

M-26 turbines have the capability of active power curtailment and can be equipped with integrated energy storage to allow for maximizing wind power in your system and on-site consumption.



The M-26 is a high-performance choice for large agricultural commercial and industrial applications. With its slender silhouette and characteristic blade shape, the elegant design of the M-26 makes for easier permitting and integration into pristine landscapes. Customize blade, tower and nacelle colour schemes for a powerful branded statement.

	CHARACTERISTIC	SPECIFICATION
<b>Main Data</b>	Model	EOX M-26
	Design class	IEC Class IIIA wind turbine
	Design life	30 years without major component replacement
	Rated power	90 kW
	Rated wind speed	Average annual wind speed: 7.5 m/s (27 km/h) (17 mph)
	Cut-in   Cut-out wind speed	2.75 m/s (9.9 km/h) (6 mph)   20 m/s (72 km/h) (45 mph)
	Extreme wind speed	52.5 m/s (189 km/h) (118 mph), 3-second average
	Operating temperature	-20 °C to 40 °C (-4 °F to 104 °F)
	Lightning protection	Lightning rod, surge protection devices, grounding system
<b>Rotor</b>	Rotor diameter	26 m (86 ft)
	Swept area	530m <sup>2</sup> (5700 ft <sup>2</sup> )
	Rotor speed	Variable, up to 55 rpm
<b>Generator</b>	Type	PM Generator
	Model	3-phase
	Generator	90 kW, 400 V, 42.4 Hz, 1.25 service factor
	Drivetrain	Direct drive (no gearbox)
	Generator enclosure and insulation	Totally enclosed, weather-proof, class F insulation, IP55, maintenance free
<b>Power Converter</b>	Type	Grid-tied / utility-interactive
	Converter output	3-phase, 380 V to 500 V
<b>Control System</b>	Controller model	Siemens PLC
	Advanced features	Data logging and direct integration with safety system
	SCADA/Monitoring system	EOX SCADA, web and mobile application
	Control strategy	Maintenance free active stall-regulated
	Weather sensors	Wind speed, wind direction, temperature
<b>Yaw System</b>	Type	Electric auto-yaw
<b>Materials</b>	Steel components	High quality, as per ASTM standards
	Corrosion protection	Hot-dip galvanized or zinc-coated, as per ASTM standards
<b>Braking System</b>	Normal operation	Combination: 1) generator 2) stall blade design 3) yaw-assist
	Emergency rotor brake	Fail-safe hydraulic disk brake
<b>Blade</b>	Model	Eocycle
	Design	Fixed-pitch (no moving parts)
	Length	12.5 m (41 ft)
<b>Tower</b>	Tower - hub height	32 m and 38 m (100 ft and 125 ft) free-standing
	Finish	White paint

AVERAGE WIND SPEED (M/S)	GROSS OUTPUT (MWH/YEAR)
4.0	126.2
4.5	170.3
5.0	216.4
5.5	262.1

AVERAGE WIND SPEED (M/S)	GROSS OUTPUT (MWH/YEAR)
6.0	305.9
6.5	346.7
7.0	383.9
7.5	417.0