



E-10

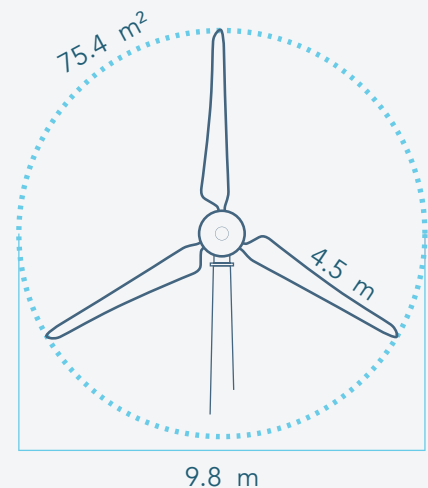
DATA SHEET

The E-10 is capable of displacing greenhouse gas emissions equivalent to 60 acres of forest each year.



GENERATOR	Type	Permanent Magnet
	Maximum Power	20 kW
	Rated Power	10 kW (Software Limited)
ROTOR	Configuration	Horizontal Axis
	No. of Blades	3
	Blade Material	Glass fibre
	Blade Length	4.5 m
	Rotor Diameter	9.8 m
	Swept Area	75.4 m ²
	Nominal Rotor Speed	120 rpm
WIND	Pitch/Yaw	Downwind active pitch with assisted yaw
	Cut-In Speed	2 m/s
	Rated Wind Speed	9 m/s
	Cut-Out Speed	30 m/s
WEIGHTS	Survival Speed	70 m/s
	Nacelle/Rotor	1,000 kg
TOWERS	Lattice	15 – 36 m
	Monopole	18 – 27 m
	Tilt-Up	18 – 27 m
DESIGN PARAMETERS	Turbine Design Class	IEC 61400-2 Class I
	Temperature Range	-20° to 50°C
	Lifespan & Servicing	20 years, subject to regular maintenance

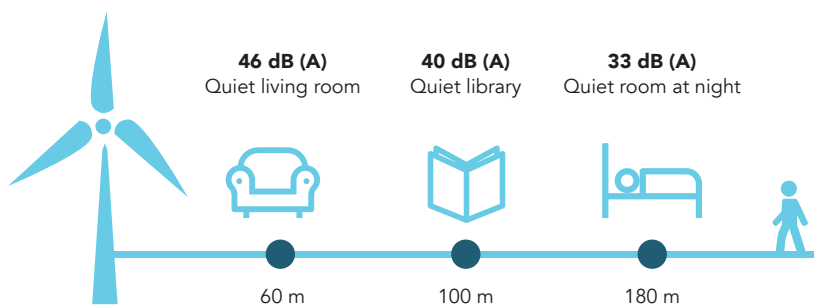
TECHNICAL PROFILE



CLASS I

ACTIVE REGULATION

NOISE



Approx. Data



SAFETY



- Base Level: Active blade pitch control, with 90° of movement, limits power output and can put blades in a total stall position.
- Second Level: Electronic control system activates mechanical brake with shaft lock and electromagnetic induction brake.
- Third Level: Passive springs deploy, putting the turbine blades in a stall position, spoiling the rotor aerodynamics and subsequently its ability to rotate.

DATA INPUT & MANAGEMENT



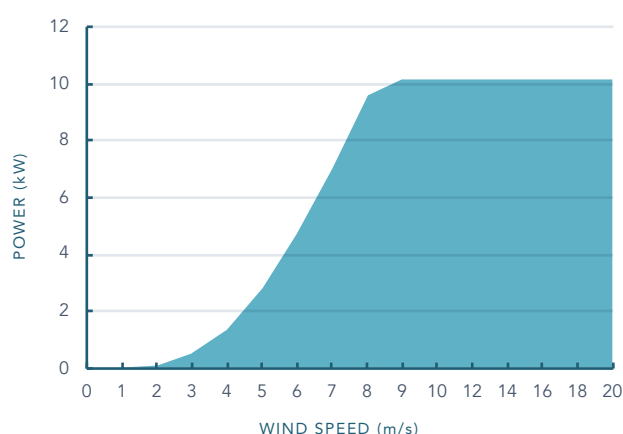
- Remote Control: Allows the remote customization of the wind turbine in order for Ryse to provide optimum performance in every site.
- Storm Detection: Intelligent storm detection algorithm and automatic safety lock protect the turbine in the event of dangerous gusts/hurricane weather.
- LCD display in control box. Can output to local PC or be monitored remotely via the internet.

CONSTRUCTION & MAINTENANCE



- Anti-Corrosive Blades: The blades and nacelle are treated with epoxy paint and hermetically sealed. This gives corrosion and saline protection, making the turbine ideal for island, coastal or desert deployments.
- Ryse service contract available.
- Online store for easy purchase of spare parts & equipment: ryse.energy/shop

POWER CURVE



ENERGY OUTPUT

Annual Mean Wind Speed (m/s)	Estimated Annual Output (kWh)
2	3,160
3	8,257
4	16,911
5	28,507
6	41,271
7	53,454
8	63,870
9	71,854
10	71,854