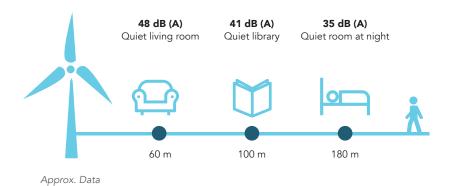




| GENERATOR            | Туре                 | Permanent Magnet                           |
|----------------------|----------------------|--|
|                      | Maximum Power        | 3 kW                                       |
|                      | Rated Power          | 1.9 kW                                     |
| ROTOR                | Configuration        | Horizontal Axis                            |
|                      | No. of Blades        | 3  |
|                      | Blade Material       | Glass fibre                                |
|                      | Blade Length         | 1.9 m                                      |
|                      | Rotor Diameter       | 3.8 m                                      |
|                      | Swept Area           | 11.34 m <sup>2</sup>                       |
|                      | Nominal Rotor Speed  | 250 rpm                                    |
|                      | Pitch/Yaw            | Upwind passive system with steering rudder |
| WIND                 | Cut-In Speed         | 2 m/s                                      |
|                      | Rated Wind Speed     | 11 m/s                                     |
|                      | Cut-Out Speed        | 60 m/s                                     |
|                      | Survival Speed       | 70 m/s                                     |
| WEIGHTS              | Nacelle/Rotor        | 125 kg                                     |
| TOWERS               | Lattice              | 6 – 27 m                                   |
|                      | Monopole             | 6 – 27 m                                   |
|                      | Tilt-Up              | 6 – 27 m                                   |
| DESIGN<br>PARAMETERS | Turbine Design Class | IEC 61400-2 Class I                        |
|                      | Temperature Range    | -20° to 50°C                               |
|                      | Lifespan & Servicing | 20 years, subject to regular maintenance   |

### **NOISE**







### **SAFETY**



- Second Level: Passive blade speeds, limits power output.

#### **DATA INPUT & MANAGEMENT**



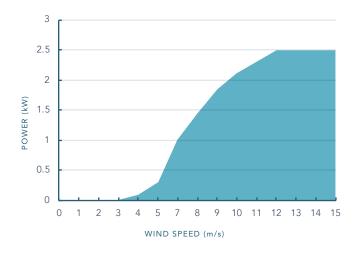
- Remote Control: Allows the wind turbine in order for Ryse provide optimum performance in every site.
- Storm Detection: Intelligent storm detection algorithm and automatic safety lock protect dangerous weather.
- LCD display in control box. Can output to local PC or be

### **CONSTRUCTION &** MAINTENANCE



- Anti-Corrosive Blades: The blades and nacelle are treated with ероху 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                            | 375                           |
| 3                            | 1,250                         |
| 4                            | 2,700                         |
| 5                            | 4,450                         |
| 6                            | 6,300                         |
| 7                            | 8,160                         |
| 8                            | 9,800                         |
| 9                            | 11,100                        |
| 10                           | 12,100                        |