

KARAYEL Technical Specifications

Power Output Maximum 6363 W @ 18 m/s
1441 W @ 11 m/s

Annual Energy Production* \approx 2119 kWh/a @ 5 m/s
 \approx 3747 kWh/a @ 6 m/s
 \approx 5866 kWh/a @ 7 m/s
 \approx 8240 kWh/a @ 8 m/s

Cut-In Wind Speed** 2.65 m/s

Cut-Out Wind Speed 20 m/s

Blade Length 1.1 m

Outer Ring Diameter 2.7 m

Length 540 mm

Yaw Control Passive

Survival Wind Speed 40 m/s

Maximum Rotor Speed 700 RPM

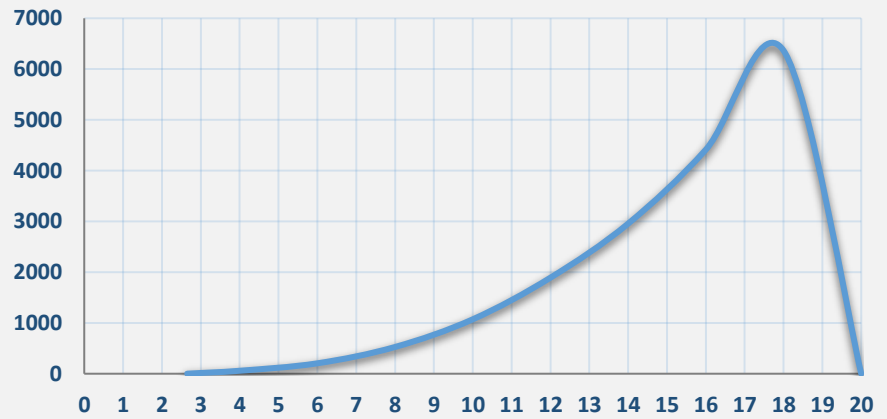
Generator Type Permanent Magnet

Braking System Aerodynamic
Passive Control
and Active
Electromagnetic
Brake

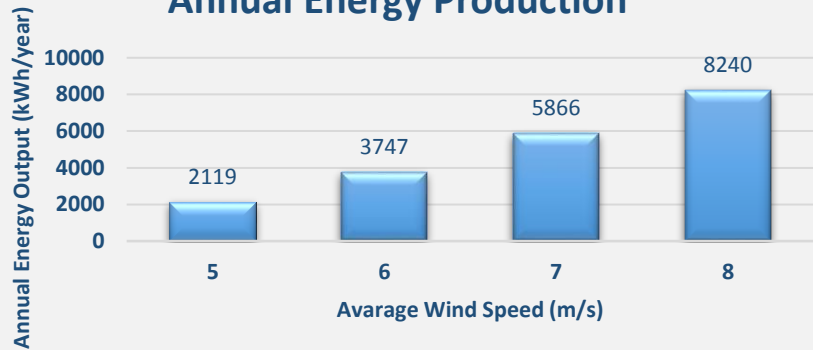
Designed Life Span 20 years



KARAYEL Power Curve



Annual Energy Production*



* Based on air density 1.225 kg/m³ and under ideal turbulence intensity (< 5%)

** Weibull distribution k = 2 and mean wind speed

*** These are theoretical values, subjected to change.