

ev312g

3.6 kW

Remote Category*

Operation silence
Most efficient
Attractive size
Economical
Aesthetic
Your Image

BLUE MAKES THE GREEN

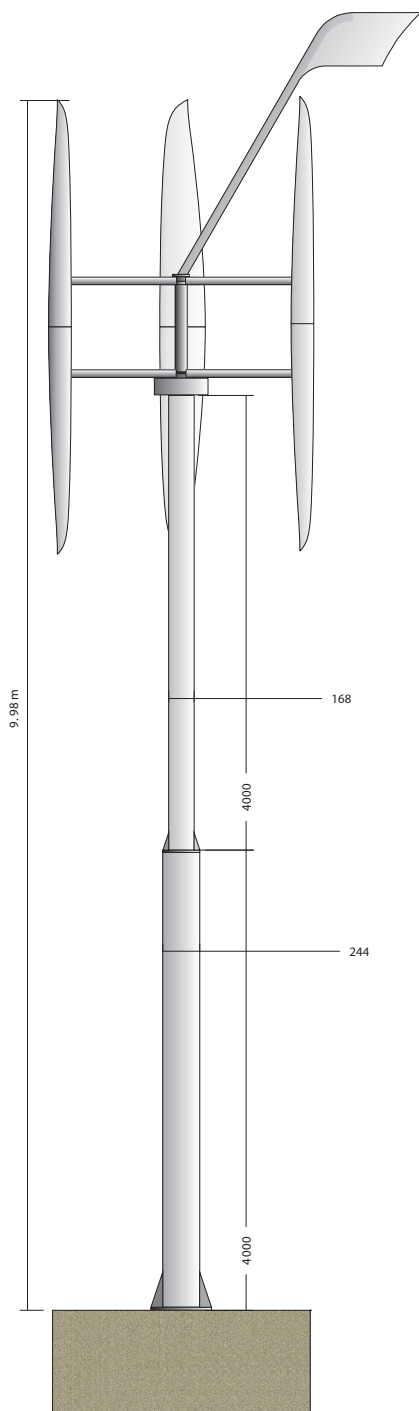
envergate wind-turbines have been specifically designed for both the distributed generation of power as well as enabling a direct feed into the public electricity grid. Our solution is highly efficient, requires low capital investment and is manufactured to the highest standards. The envergate turbine design is compact in size and extremely quiet leading to easy approval of construction permits. Its vertically positioned wings allow for an optimized harvesting of the wind even in dynamic conditions between gusts and lulls and do not create noise nor areas of undesired shade. The solution will amortize itself quickly all the while reducing your carbon footprint.

*family-houses, cottages, addition to photovoltaics, ridged roofs, radio- and cell towers, heat-, water pumps and -conditioning, mobile deployment, battery charger

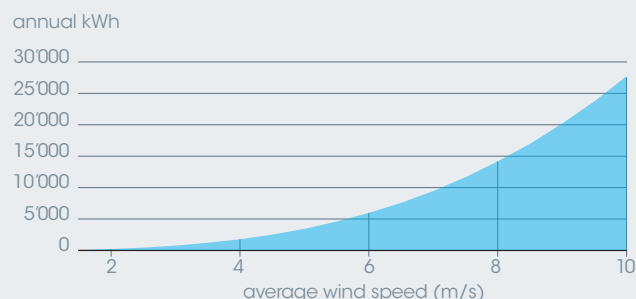
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Product Information



Net annual power ev312g (Weibull factor 2)



Operating data

| | | |
|---------------------|-----------------------------------|---------|
| Nominal capacity | 3.6 kW | |
| Installed capacity | 4.0 kW _{peak} | |
| Nominal wind speed | 13 m/s | 25.3 kn |
| Start-up wind speed | 1.5 m/s | 3 kn |
| Engage wind speed | 3 m/s | 5.8 kn |
| Noise level | 40 dB (20 m distance, 5 m/s wind) | |
| Design layout | 20 years | |
| Warranty | 2/3 years | |
| CE - Certification | acc. IEC WT 01 (EN61400-2:2006) | |

Rotor

| | |
|--------------------|----------------------------------|
| Material | composite (CFK) |
| Wings | wing-span 3.12 m, diameter 2.5 m |
| Wing pitch control | mechanical |
| Wind tracing | mechanical wind vane |

Safety systems

| | |
|----------------------|-------------------------|
| Electrical brake | generator, dump load |
| Overspeed protection | governor (active stall) |

Inverter

| | |
|-------------------|-----------------------------------|
| Output ON - GRID | 230 VAC, single phase, 50 - 60 Hz |
| Output OFF - GRID | 24 / 48 VDC |
| Battery pack | on request |

Mast / Foundation

| | |
|----------------------|-----------------------------------|
| Type | steel, stainless, galvanized |
| height | 4/8 m |
| Foundation (8m mast) | 2.1 x 2.1 x 1 m deep (ref. value) |
| Weight | 250 - 800 kg (acc. to mast) |

Control system

| | |
|-----------------|-------------------|
| Control cabinet | inhouse / outdoor |
|-----------------|-------------------|

subject to modification and amendments