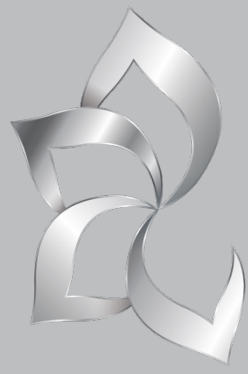
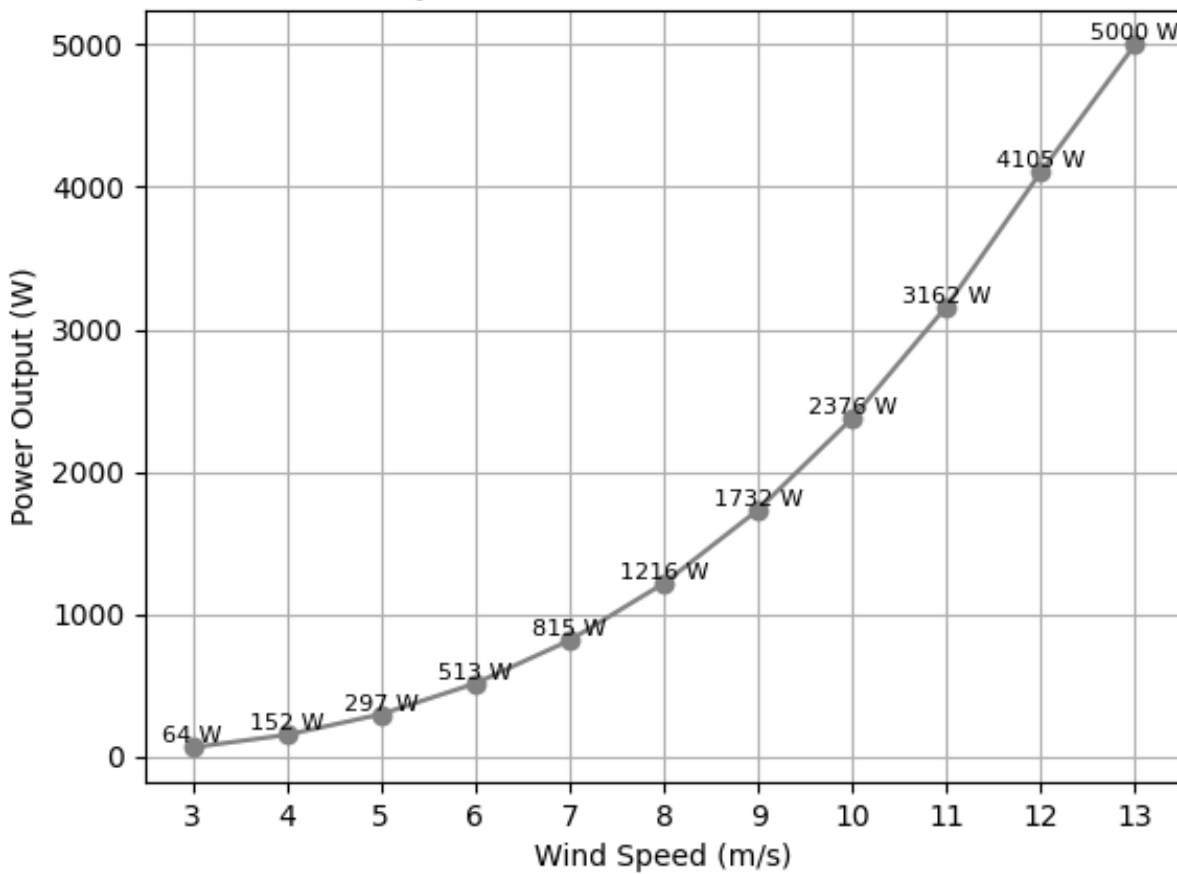


Performance Report



Tumurly® Titan5.0 Advanced

Tumurly® Titan5.0 Advanced Power Curve



The Tumurly® Titan5.0 is an advanced 5.0 kW wind turbine developed through extensive R&D to deliver high efficiency and reliable performance. Rated at a wind speed of 13 m/s, the turbine features a 3.8 m rotor diameter and a swept area of 11.34 m², achieving efficient energy capture with a power coefficient (C_p) of 0.38 under standard air density conditions (1.225 kg/m³).

Equipped with a Permanent Magnet Generator (PMG) and aerodynamically optimized fiberglass blades, the Titan5.0 operates from a low cut-in wind speed of 3 m/s, ensuring stable energy production in low and moderate wind environments. Its robust design and maintenance-free sliding contact system enable smooth, low-noise operation, while braking at wind speeds above 15 m/s ensures effective system protection. Fully compliant with CE and UKCA standards, the Titan5.0 meets international performance and safety requirements.