



IMPLUX™ Wind Power Turbine

Specifications

Model	I135	I175	I225	I275
Rotor Diameter	1.35 m	1.75 m	2.25 m	2.75 m
Blade Swept Area	1.43 m ²	2.42 m ²	3.99 m ²	5.95 m ²
Unit Diameter (Top/ Base)	Ø2.3 m x Ø1.2 m	Ø3.0 m x Ø1.5 m	Ø4.0 m x Ø1.9 m	Ø5.0 m x Ø2.3 m
Unit height	2.1 m	2.8 m	3.6 m	4.4 m
Unit weight	290 kg	460 kg	720 kg	1150 kg
Rotor Blades (airfoil type)	5 x 0.445m	6 x 0.575m	6 x 0.785m	6 x 0.955m
Blade Material	Composite	Composite	Composite	Composite
Shroud/Frame Material	Fiberglass/Steel	Fiberglass/Steel	Fiberglass/Steel	Fiberglass/Steel
Gear Box	None	None	None	None
Annual Energy (@ 5.5 m/s) *	1540 kW. Hrs. **	2830 kW. Hrs. **	4720 kW. Hrs. **	7010 kW. Hrs. **
Cut-in speed	2.5 m/s (9 kmh.)	2.5 m/s (9 kmh.)	2.8 m/s (10 kmh.)	3.1 m/s (11 kmh.)
Cut-out speed	20 m/s (72 kmh.)	20 m/s (72 kmh.)	20 m/s (72 kmh.)	20 m/s (72 kmh.)
Survival Wind speed	60 m/s (215 kmh.)	55 m/s (198 kmh.)	52 m/s (187 kmh.)	50 m/s (180 kmh.)
Maximum rotor speed	870 rpm	590 rpm	550 rpm	460 rpm
Generator Type	Permanent Magnet	Permanent Magnet	Permanent Magnet	Permanent Magnet
Generator Output	High Volt, Three-Phase	High Volt, Three-Phase	High Volt, Three-Phase	High Volt, Three-Phase
Grid- Connect	240 V / 50 Hz	240 V / 50 Hz	240 V / 50 Hz	240 V / 50 Hz
Maximum Power (@ 13 m/s) **	1.3 kW**	2.3 kW**	3.8 kW**	5.4 kW**
Rated Power (@ 11 m/s) *	0.75 kW	1.4 kW	2.3 kW	3.5 kW

* Performance prediction based on final commercial units

** Up to 25% higher power generator selections possible based on site wind potential to increase annual energy production
All specifications are subject to change without notice due to ongoing product improvements.

Power Curves IMPLUX WIND TURBINE

