





TECHNICAL DATA

Turbine and generator manufaturer	ROPATEC	
<u>\Model</u>	SA-40	
\ <u>Power</u>	10 kW	
Swept area	39,9 m ²	
Wind speed		
Cut-in	ca. 3 m/s	
Cut-out	26 m/s	
Wind class according to IEC61400-2	Class III	
Generator	Permanent magnet	
_	Disc et deixe	
Transmission system	Direct drive	
Slade material	Fiberglass	
Blade material	FIDEIBIASS	
Rotor diameter	7 m	
\Blade length	5,7 m	
Overspeed control	Safety PLC Controller SIL-3	
	(electrical and hydraulic	
∖ Noisiness	brake)	
Value	42 dB	
Wind speed	8 m/s	
Distance from mast	30 m	
	50 11	
Mast		
Height	12 m / 18 m	
Weights		
Turbine	1900 kg	
Mast	1600 kg / 2350 kg	
\Monitoring system	SDMR based on SCADA	
Operating temperature	-20°C/+55°C	
	(can be adapted to extreme	
	tomporatures upon request)	

AEP - Annual Energy Production*

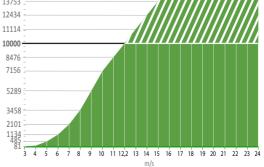
Average annual wind speed [m/s]	[kWh] per year	Self-consumption coverage per household	CO2 EMISSION ANNUAL SAVING***
4,5	8350		3,7 t
5	11850	() () () ()	5,3 t
5,5	15700	থি থি থি থি গি	7,0 t
6	19750	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8,9 t
6,5	23850	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10,7 t
7	27900	10000 10000	12,5 t

temperatures upon request)

The data reported reflect ideal work conditions and are subject to change due to external factors such as temperature, altitude, atmospheric pressure, turbulence level, humidity and presence of obstructions.

3500 kWh correspond to average annual consumption of a family of four.





- Production at sea level with laminar wind speed and Weibull distribution shape parameter k=2.
- ** The power curve is indicative and not explicative. It is set in accordance with site characteristics. The data correspond to laminar wind.
- *** Calculated approximately on the basis of average European (EU-27) CO2 benchmark of 0,45 t/MWh. This value may vary from country to country.