

ROPATEC SA40

BIEGGA

ANOTHER ENERGY
Dorpha Allé 10, Dk-2630 Taastrup
T: +45 43 500 600
info@biegga.dk - www.biegga.dk



DESIGNED AND
MADE IN ITALY

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ENG

TECHNICAL DATA

Turbine and generator manufacturer	ROPATEC
Model	SA-40
Power	10 kW
Swept area	39,9 m²
Wind speed	<div> <div>Cut-in</div> <div>Cut-out</div> </div> <div> <div>ca. 3 m/s</div> <div>26 m/s</div> </div> <div> <div>Wind class according to IEC61400-2</div> <div>Class III</div> </div>
Generator	Permanent magnet
Transmission system	Direct drive
Blade material	Fiberglass
Rotor diameter	7 m
Blade length	5,7 m
Overspeed control	Safety PLC Controller SIL-3 (electrical and hydraulic brake)
Noisiness	<div> <div>Value</div> <div>Wind speed</div> <div>Distance from mast</div> </div> <div> <div>42 dB</div> <div>8 m/s</div> <div>30 m</div> </div>
Mast	<div> <div>Height</div> </div> <div> <div>12 m / 18 m</div> </div>
Weights	<div> <div>Turbine</div> <div>Mast</div> </div> <div> <div>1900 kg</div> <div>1600 kg / 2350 kg</div> </div>
Monitoring system	SDMR based on SCADA
Operating temperature	-20°C/+55°C



SILENT



INDEPENDENT OF WIND DIRECTION



APAS
ACTIVE PERFORMANCE ADAPTING SYSTEM



PRODUCTION AT HIGH WIND SPEED



HIGH EFFICIENCY AND RELIABILITY



LOW MAINTENANCE



MONITORING AND REMOTE CONTROL



PLUG AND PLAY



VERSATILE APPLICATIONS

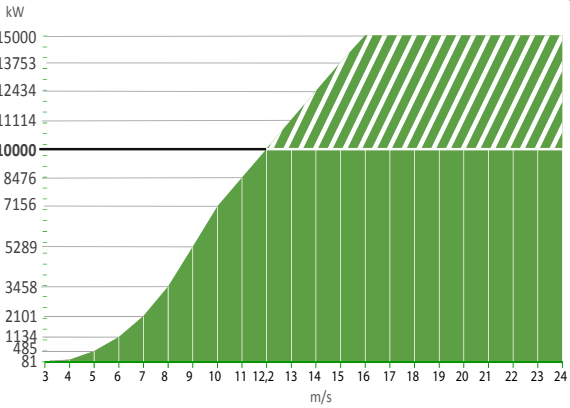
APAS
ACTIVE
PERFORMANCE
ADAPTING
SYSTEM

The power curve is constantly trimmed to maximize efficiency in accordance with local wind conditions

AEP - Annual Energy Production*

Average annual wind speed [m/s]	[kWh] per year	Self-consumption coverage per household
4,5	8350	
5	11850	
5,5	15700	
6	19750	
6,5	23850	
7	27900	

Nominal power curve**



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

* 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.