SAID pros







TECHNICAL DATA

Turbine and generator manufaturer	ROPATEC
\Model	SA-70 proS
\Power	15 kW
Swept area	70,2 m ²
Wind speed	
Cut-in Cut-out	ca. 3 m/s
Wind class according to IEC61400-2	19 m/s Class III
C	Permanent magnet
Generator	Fermanent magnet
Transmission system	Direct drive
Blade material	Fiberglass
Rotor diameter	7,8 m
	.,
Blade length	9 m
Overspeed control	Safety PLC Controller SIL- (electrical and hydraulic
	brake)
Noisiness	
Value	42 dB
Wind speed	8 m/s
Distance from mast	30 m
∖ Mast	
Height	18 m
< Weights	
Turbine	2100 kg
Mast	2350 kg
IVIASL	-000 ND
Monitoring system	SDMR based on SCADA
Operating temperature	-20°C/+55°C
	(can be adapted to extreme
	temperatures upon request)

SILENT INDEPENDENT OF WIND DIRECTION APAS ACTIVE PERFORMANCE ADAPTING SYSTEM PRODUCTION AT HIGH WIND SPEED HIGH EFFICIENCY AND RELIABILITY LC Controller SIL-3 LOW MAINTENANCE G MONITORING AND REMOTE CONTROL II PLUG AND PLAY -0 VERSATILE APPLICATIONS APAS The power curve is constantly trimmed to ACTIVE PERFORMANCE maximize efficiency in accordance with local wind ADAPTING conditions SYSTEM Nominal power curve** kW

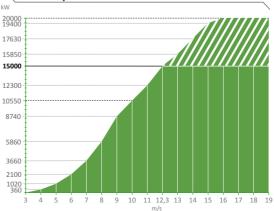


Average annua wind speed [m/s]	[kWh] per year	Self-consumption coverage per household	CO ₂ EMISSION ANNUAL SAVING***
4,5	14500	() () () () () ()	6,5 t
5	19850	Image: Constraint of the second sec	8,9 t
5,5	25650	<u> </u>	11,5 t
6	31700	<u>©</u> ©©©© ©©©©©©	14,3 t
6,5	37700	<u>^</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u>	17,0 t
7	43450		19,5 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.