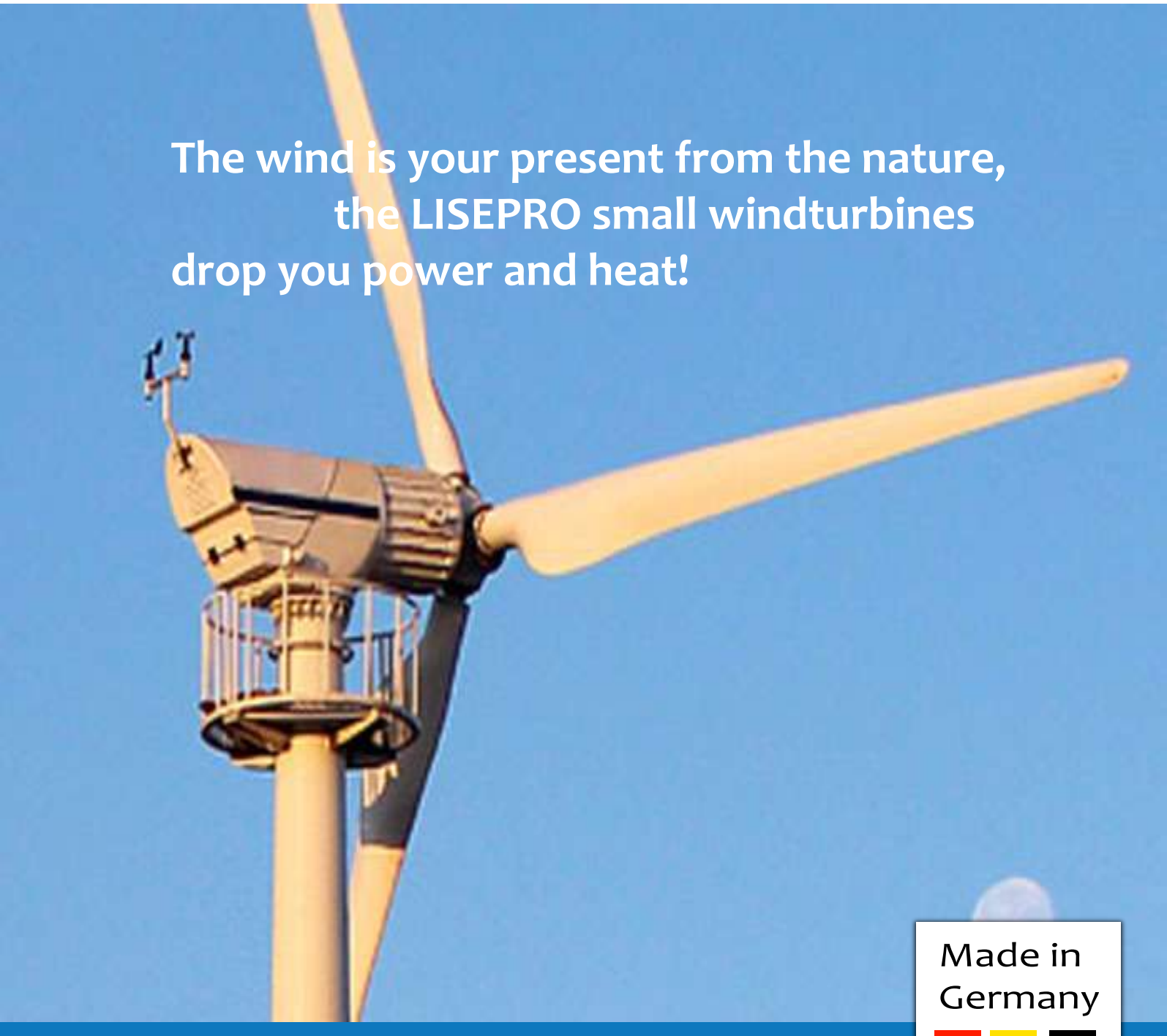
LISEPRO®
Energie & Robotik
Science for a better World

LISEPRO horizontal windturbines



www.lisepro.com.tr

Data Sheets
LISEPRO wind turbines 10 kW - 100 kW

The advantages of the LISEPRO Small Wind Turbines

- **For exposed wind sites optionally with various rotor diameters (1,2 – 9.50 m)**
- **Low-noise blade profile**
- **For grid connected, heating systems and as battery charger**
- **Storm protection with helicopter function and electronic braking**
- **Easy to install**

General information on the LISEPRO Wind Power System

The LİSEPRO wind turbine is a wind power system which is ideal for inland sites.

It was developed especially for grid feed-in, charging batteries (24 V DC / 48 V DC etc.) and for the support of heating systems.

As a result of the robust design the LISEPRO is also suitable for exposed wind sites, optionally with various rotor diameters (1,2 – 9.50 m). The manually la - minated rotor blades benefit from a computer-designed aerodynamic profile. Needless to say that each blade is dynamically and statically balanced and has an identification number and documentation.

Example: LISEPRO 2.5 kW - 3.5 kW

To facilitate easy installation we set the focus on enabling fast setup and manual installation of the turbine. Due to the robust design the LISEPRO is ext - remely efficient and for the base installation has a very attractive price. Here, special attention should be put on the excellent starting behaviour, which at a wind velocity below 1.8 m/sec. operates at a very low noise (24 – 36 dB). This means that the system can also be set up in housing areas.

Example: LISEPRO 5.5 kW - 10.0 kW

Grid-connected operation requiers the Smart! wind and PowerOne inverter with characteristics matched to the LISEPRO and local wind conditions. The grid-connected inverters feature an according declaration of conformity and are registered for the grid-feed-in mode, the LP are already integrated!

If the LISEPRO is used in heating applications a control cabinet with control electronics is used for the optimum wind characteristic management in con - junction to a heating rod with 9000 Watt!

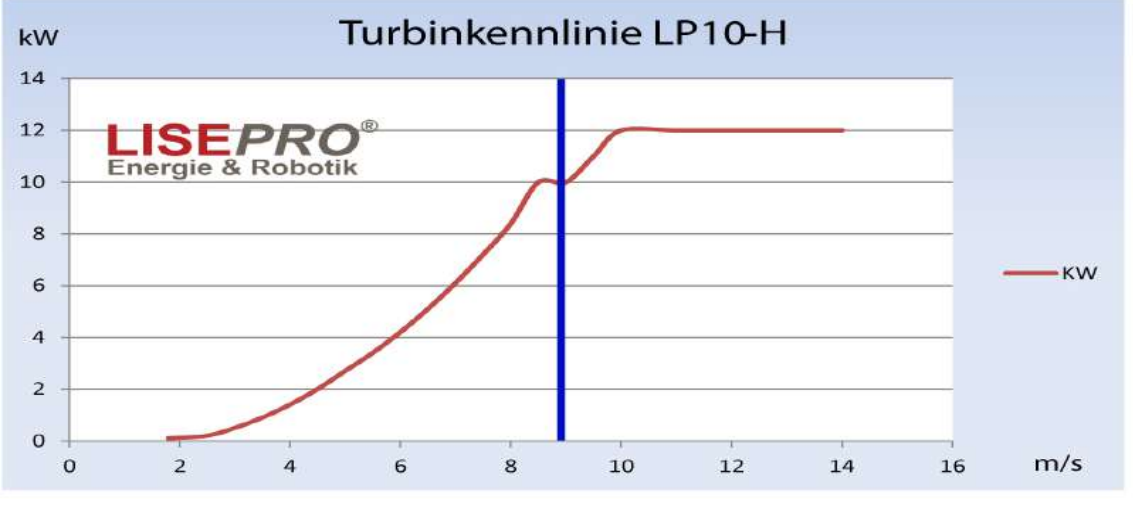
LISEPRO®
Energie & Robotik
Science for a better World

Alternator		Turbine Data	
Type	3-phasig permanent magnet	Type	Grid connected heating system
Efficiency	96%	Speed range	0 rpm – 600 rpm
Nominal capacity	10.0 kW	Working range	130 rpm – 400 rpm
Maximum capacity	12 kW	Engagement speed	2,5 m/s
Nominal voltage	400 VAC	Storm safety	9.0 m/s
Protection class	IP56	Max. wind velocity	58 m/s

Mechanical Data		Storm Protection	
Repeller diameter	7,6 m	Automatic system	Helicopter position, braking resistance, electromagnetic brake (optional)
Sweep area	45,36 m^2	Manually	Short-circuit braking, braking resistance
Rotor blades	3 piece carbon / glass fibre		
Rotor blade protection	UV-, chemistry and temperature resistant		
Turbine material	High-temperature galvanized		
Colour	RAL 9010		
Total weight	450 kg		

Standard norms and certificates:

CE-DIN EN 60204-1
DIN VDE 0113 T 1
DIN EN 12100
DIN EN 418
Accident prevention regulation
BGV A3 (VBG4) accordingly
IEC 61400-2



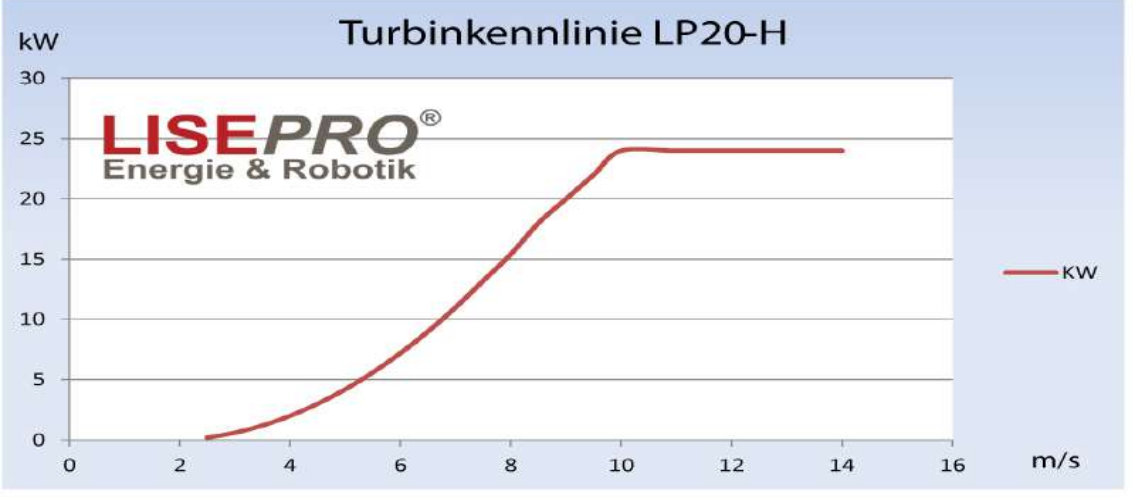
LISEPRO®
Energie & Robotik
Science for a better World

Alternator		Turbine Data	
Type	3-phase permanent magnet	Type	Grid connected heating system
Efficiency	94%	Speed range	0 rpm – 600 rpm
Nominal capacity	20 kW	Working range	115 rpm – 430 rpm
Maximum capacity	24 kW	Engagement speed	2,5 m/s
Nominal voltage	400 VAC	Storm safety	13.0 m/s
Protection class	IP56	Max. wind velocity	58 m/s

Mechanical Data		Storm Protection	
Repeller diameter	10.0 m	Automatic system	Helicopter position, braking resistance, electromagnetic brake (optional)
Sweep area	78,53m^2	Manually	Short-circuit braking, braking resistance
Rotor blades	3 piece carbon / glass fibre		
Rotor blade protection	UV-, chemistry and temperature resistant		
Turbine material	High-temperature galvanized		
Colour	RAL 9010		
Total weight	960 kg		

Standard norms and certificates:

CE-DIN EN 60204-1
DIN VDE 0113 T 1
DIN EN 12100
DIN EN 418
Accident prevention regulation
BGV A3 (VBG4) accordingly
IEC 61400-2



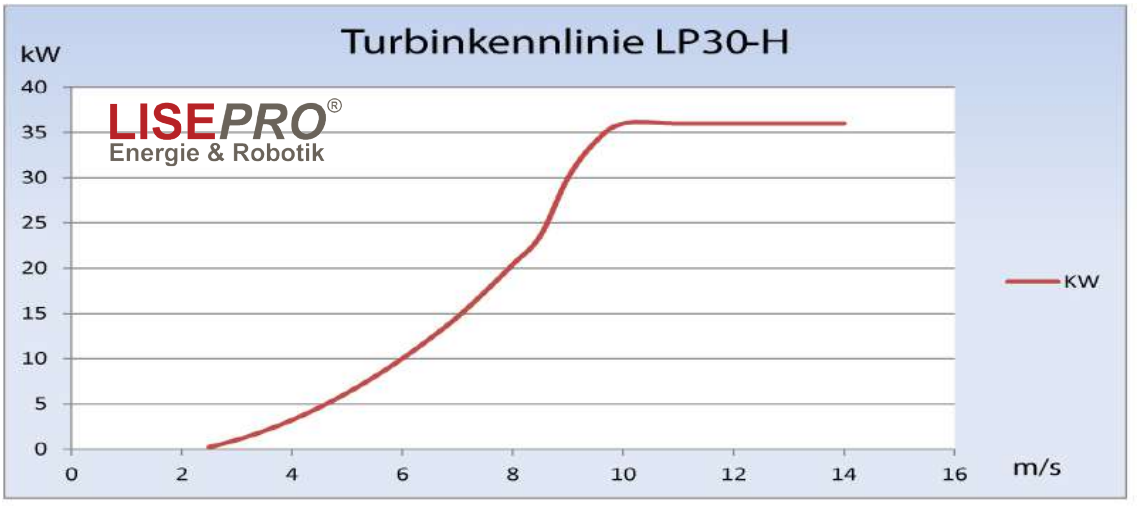
LISEPRO®
Energie & Robotik
Science for a better World

Alternator		Turbine Data	
Type	3-phase permanent magnet	Type	Grid connected heating system
Efficiency	95,3%	Speed range	0 rpm – 350 rpm
Nominal capacity	30.0 kW	Working range	75 rpm –300 rpm
Maximum capacity	36 kW	Engagement speed	2,5 m/s
Nominal voltage	400 VAC	Storm safety	13.0 m/s
Protection class	IP56	Max. wind velocity	58 m/s

Mechanical Data		Storm Protection	
Repeller diameter	15,6 m	Automatic system	Helicopter position, braking resistance, electromagnetic brake (optional)
Sweep area	191,13 m^2	Manually	Short-circuit braking, braking resistance
Rotor blades	3 piece carbon / glass fibre		
Rotor blade protection	UV-, chemistry and temperature resistant		
Turbine material	High-temperature galvanized		
Colour	RAL 9010		
Total weight	3.430 kg		

Standard norms and certificates:

CE-DIN EN 60204-1
DIN VDE 0113 T 1
DIN EN 12100
DIN EN 418
Accident prevention regulation
BGV A3 (VBG4) accordingly
IEC 61400-2



LISEPRO®
Energie & Robotik
Science for a better World