





www.dospel.com





FUTURE IS NOW

50 YEARS OF EXPERIENCE

For half a century, Dospel has been providing the highest quality solutions to the industry, based on solid experience and knowledge. Our history is a guarantee of trust and reliability.

INDEPENDENT POLISH PRODUCTION COMPANY

We are proud of our roots as an independent Polish company that has been operating on the market for years, offering products that meet the highest quality standards.

DUNAMIC DEVELOPMENT

We are constantly developing, adapting our solutions to the changing needs of customers. We invest in innovations and new technologies to remain a leader in the ventilation market.

OVER 40,000 M² OF WAREHOUSE AND PRODUCTION SPACE

Our modern infrastructure, covering over 40,000 m² of space, allows us to fulfill even the most demanding orders with the highest efficiency.

8 YEARS WARRANTY

Our products are covered by an 8-year warranty, which confirms their reliability and durability. We make sure that every customer feels confident when choosing our offer.

PROFESSIONAL SERVICE

The Dospel team consists of experienced specialists who provide support at every stage of cooperation - from technical advice to after-sales service.

POLISH PRODUCT

We create products 100% in Poland, which allows us to take care of you for the highest quality and support the local economy.

MODERN MACHINERY

We have a modern machine park that allows us for precise and efficient compliant production with the latest technological standards.

BREAKTHROUGH TECHNOLOGIES

Introduction to the production of energy-saving BLDC motors such as Tesla,
Fenix - The world's best recuperator combined with 6-level air filtration. Dragon
vertical wind turbine with a generator specially designed by the company,
dedicated to Polish wind conditions.

ENERGY SAVING POLICY

We create products with the natural environment and the customer's wallet in mind, in accordance with EU standards.

RESEARCH AND DEVELOPMENT TEAM WORKING ON THE HIGHEST QUALITY PRODUCTS

Our research and development department constantly works to improve products, ensuring that each new line meets customer expectations and was ahead of market trends.

LIGHT ALUMINUM DESIGN, NOT INCRIMINATING ROOF

UP TO 8 YEARS
WARRANTY
MANUFACTURER
DOSPEL

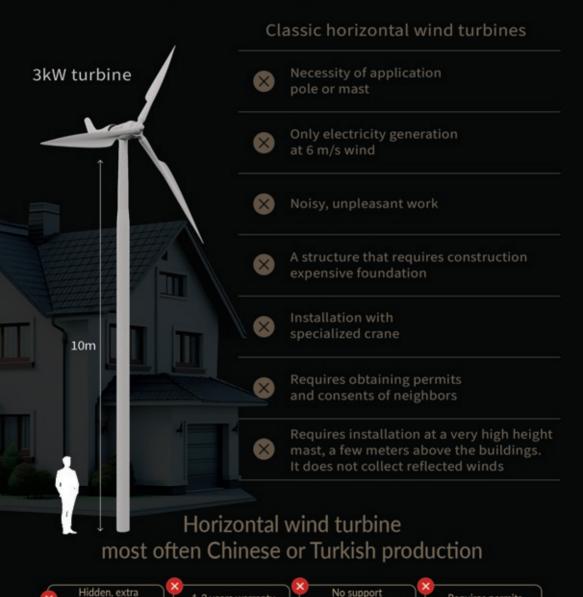
PRODUCT
MADE
100%
IN POLAND

EASY ASSEMBLY
NOT REQUIRED
MAST
AND PERMITS

GALVANIZED
FIRE UNTIL
650 MICRONS - PERFECT
PROTECTS METAL
ELEMENTS
TURBINES
DRAGOON
AGAINST CORROSION

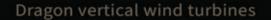


Disadvantages and problems when using large wind turbines which require permits and significant financial outlays





Our idea is to split one large turbine into a 3xDRAGON package It generates electricity at any time throughout the year









3kW installation the package includes 3 x Dragon 1000W

170cm

The quietest, noiseless operation, thanks to SKF bearings

Compact, lightweight design

Installation without the use of a crane

No permits required. Dimensions allowing installation on any roof

Additionally, for electricity production collects winds reflected from buildings and trees

trees

Dragon turbine - 100% Polish production



ZHG0N Dragon wind turbine The perfect complement to a photovoltaic installation!



Dedicated to Polish weather conditions

The DRAGON wind installation works individually and as a complement to the

YEARS

- Free energy
- The guietest turbine on the market!
- Off-grid / on-grid installation
- Possibility of financing
- Payback on installation: 3-5 years
- No permits



DRAGO

Choose the color that suits you best to your roof or building facade











GRAPHITE (RAL 9004)







































3000W+

A package consisting of 3 wind turbines, power generators - Dragon 1000+ is our NEW with a NEW IMPROVED GENERATOR that will allow you to gain true energy independence. Wind turbines are an ideal complement to photovoltaics, because they generate electricity when the panels are not working.



	Package Dragon 3000+
The power of the package	3000W
Dimensions of a single turbine	100x170cm
Generator output voltage	AC
Generator	three-phase (3f) with neodymium magnets
Takeoff speed	od 1,2 m/s
Brake	in the regulator/braking controller
Noise level according to Standard PN-EN 61400-11	<44dB at 8m/s at 3m
Operating temperature	from -25°C to 45°C
Compliance with the standard:	CE, IEC 61400
Protective layer:	hot-dip galvanized, 650µm



The perfect complement to a photovoltaic installation



The quietest operation, thanks to SKF bearings



Dedicated to Polish weather conditions



Work in an off-grid or on-grid system



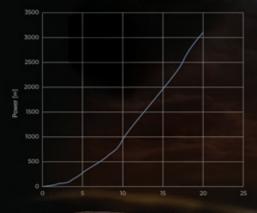
Endurance tested in wind speeds of up to 200 km/h



10

Light construction that does not burden roofs







DRAGON

Package ON/OFF-GRID

4500W+

A package consisting of 3 wind turbines and power generators - Dragon 1500+ will allow you to achieving true energy independence. Wind turbines are the perfect complement photovoltaics because they generate electricity when panels do not work.



	Package Dragon 4500+
The power of the package	4500W
Dimensions of a single turbine	150x240cm
Generator output voltage	AC
Generator	three-phase (3f) with neodymium magnets
Takeoff speed	od 1,2 m/s
Brake	in the regulator/braking controller
Noise level according to Standard PN-EN 61400-11	<44dB at 8m/s at 3m
Operating temperature	from -25°C to 45°C
Compliance with the standard:	CE, IEC 61400
Protective layer:	hot-dip galvanized, 650µm



The perfect complement to a photovoltaic installation



Work in an off-grid or on-grid system



The quietest operation, thanks to SKF bearings



Endurance tested in wind speeds of up to 200 km/h



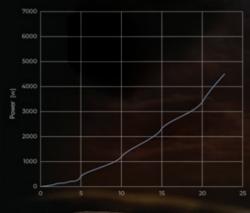
Dedicated to Polish weather conditions



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Light construction that does not burden roofs







DRAGON

Package ON/OFF-GRID

6000W+

The most efficient wind turbine package on the market consisting of 4 1500W turbines. The Dragon 6000+ package will allow you to achieve true energy independence. Triple Generator in Dragon turbines maximizes the energy obtained from the wind.



DOSPEL 13

	Package Dragon 6000+
The power of the package	6000W
Dimensions of a single turbine	150x240cm
Generator output voltage	AC
Generator	three-phase (3f) with neodymium magnets
Takeoff speed	od 1,2 m/s
Brake	in the regulator/braking controller
Noise level according to Standard PN-EN 61400-11	<44dB at 8m/s at 3m
Operating temperature	from -25°C to 45°C
Compliance with the standard:	CE, IEC 61400
Protective layer:	hot-dip galvanized, 650µm



The perfect complement to a photovoltaic installation



Work in an off-grid or on-grid system



The quietest operation, thanks to SKF bearings



Endurance tested in wind speeds of up to 200 km/h



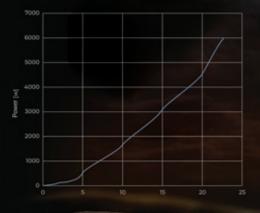
Dedicated to Polish weather conditions



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Light construction that does not burden roofs

POWER CHARACTERISTICS





Hybrid electrical connection (example schematic) 3xDRAGON 1000+

System ON-GRID hybrid

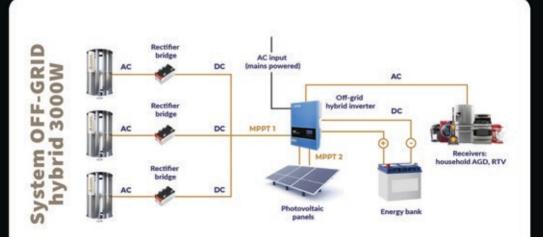
Gain energy independence with the Dragon wind turbine mounted in an on-grid system. This system accumulates the generated electricity in the power bank, guaranteeing access to electricity 24 hours a day.



We are the only company that gives the possibility of connecting turbines in series and parallel, depending on the wind zone and the inverter used.

System OFF-GRID HYBRID

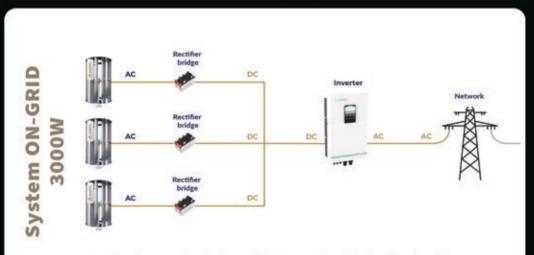
A perfect complement to a photovoltaic installation. A wind turbine generates electricity bothduring the day and at night, when photovoltaics are not working. What's more, Dragon produces energy both in summer and winter, when photovoltaics are limited only to sunny days.



ON-GRID electrical connection (example schematic) 3xDRAGON 1000+

System ON-GRID

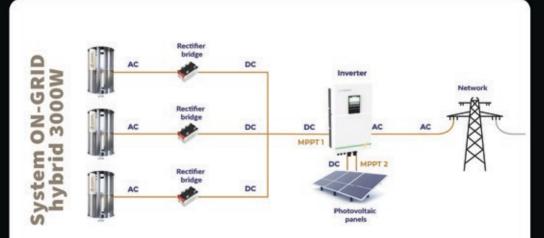
Get energy independence with the Dragon wind turbine installed in the on-grid system.



We are the only company that gives the possibility of connecting turbines in series and parallel, depending on the wind zone and the inverter used.

System ON-GRID HYBRID

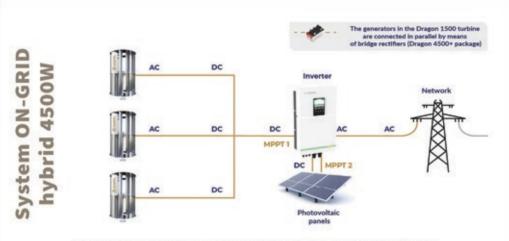
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Hybrid electrical connection (example schematic) 3xDRAGON 1500+

System ON-GRID hybrid

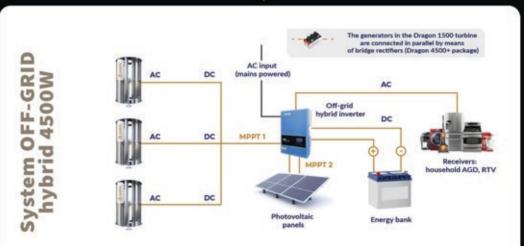
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System OFF-GRID HYBRID

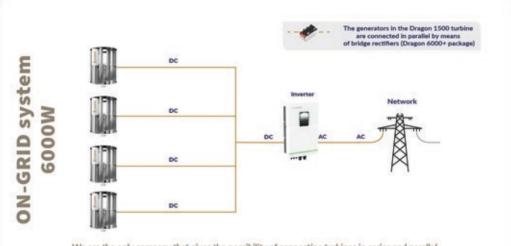
A perfect complement to a photovoltaic installation. A wind turbine generates electricity bothduring the day and at night, when photovoltaics are not working. What's more, Dragon produces energy both in summer and winter, when photovoltaics are limited only to sunny days.



ON-GRID electrical connection (sample diagram) 4xDRAGON 1500+

System ON-GRID

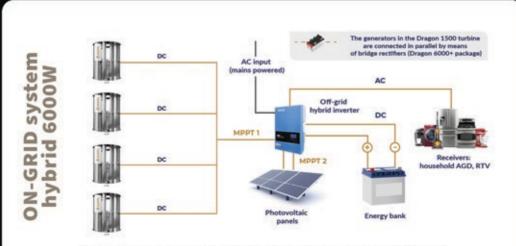
Gain energy independence with a Dragon wind turbine installed in the on-grid system.



We are the only company that gives the possibility of connecting turbines in series and parallel, depending on the wind zone and the inverter used.

ON-GRID HYBRID system

The perfect complement to a photovoltaic installation. A wind turbine generates electricity both both during the day and at night, when the photovoltaics are not working. Moreover, Dragon produces energy both in summer and winter, when photovoltaics is limited only to sunny days.



Average wind speed in Jelenia Góra

Map of wind zones in Poland based on the average wind speed per year

Zone 2 Average wind speed: >6m/s • Recommended driver: 48V

Recommended controller: 24V



Average wind speed in Łeba in 2022.

Average wind speed

TYPICAL TURBINE
Plantible of frout in which a special surprise generation electricity (privatigo wind speed higher than laring)

PARON TURBINE
Surprise of hours in which the Origin further powerant electricity (see age wind speed higher than 18 m.N)

8424 hours (351 dni)

Define this period, the largeth of the day is put of the day is







Double generator maximizing the energy obtained

The Dragon 1500+ wind turbine has a double generator.

In order to perfectly match the turbine to the wind conditions prevailing at the site its assembly, the manufacturer Dospel offers two types of generator plate connections:

CONNECTION IN PARALLEL

Recommended for use in conditions high wind. Maximizes energy obtainable from strong wind.

th wind. Maximizes windy. This connection will obtainable from strong generating electricity at a

On-grid system:

On-grid is a system integrated with the network. Any surplus of energy produced is transferred to the plant energy. The person can later settle them accordingly with the principles of net-billing. This type of installation allows you to benefit from photovoltaics or wind turbines when the installations do not operate at full energy gain. Previously transferred energy can only be "taken away" in electricity bills. On-grid systems are very popular in our country, but their significant disadvantage is that in the event of a network failure, the installations do not work, and therefore the house or company is without electricity.

CONNECTION STERGOURE

Dedicated to low wind zones windy. This connection will allow you to generating electricity at a lower speed wind

Off-grid system:

Off-grid installation allows for independence obtaining electricity, without the need to connect to the general network energy. In such a system there are surpluses energy are stored in the energy bank and regulated by the charging system. Thanks to this, the user has complete freedom in using the stored energy. Off-grid installations such as vertical wind turbines with a coreless generator, are a perfect solution for people striving for full energy independence. Unlike on-grid systems, off-grid installations do not require a connection to the network.

Maximum optimization for a specific location

For efficient operation of a wind turbine, it is necessary to determine the wind strength in a given location.

DRAGON ita universal device because it can be equipped with a diversified control system, and therefore goes to adapt the characteristics of its work to a specific location. It exists in this device possibility of installing a 24 or 48 V controller. It will be suitable in low-wind areas 24V controller. In high windy locations, a 48V controller will be appropriate. To determine what controller we need, check what the average wind force is in the place where we plan to install DRAGON. It is easy to check this using available platforms, for example, Meteoblue and select the appropriate driver on this basis.



Easy installation of the Dragon installation



Mounting bracket for the Dragon package

A dedicated mounting bracket allows for easy and stable installation of Dragon wind turbines on straight and sloping roofs. The design of Dragon turbines is so light that their installation does not burden the roof even in gusty winds. The holder has an adjustable angle of inclination for precise positioning of the turbine perpendicular to the horizontal.



SEE THE REALIZATIONS

Dragon Braking Controller

The brake controller can be used in voltage installations with different voltage ranges (from 0 to 1000V), depending on the from the selected version of the device. This allows it to be customized for a variety of installation needs, offering flexibility in applications with different operating voltages.





Deye Sun 3.6kW 1-phase

DEYE SUN-3.6K-SG03LP1-EU is a single-phase, low-voltage (48V) hybrid inverter that allows you to increase energy independence and optimize the direction of energy flow and the sources or receivers where this energy is directed. With a compact design and high power density, this series supports a DC/AC ratio of 1.3, which saves on device investment.

Solplanet 3-phase

The Solplanet inverter is an innovative, three-phase inverter dedicated to Dragon wind turbines. It allows for intelligent management of the energy produced, e.g. with a connected energy storage facility we can use the energy produced at night during the day. Low start and run voltage on the DC side 180 V / 125 V and two MPPT inputs 13 A each. The inverter is equipped with a WiFi module for wireless connection to the Internet and cloud monitoring, giving us access to data from our mobile phone wherever we are.



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FUTURE ENERGY









DRAGO!

FUTURE IS NOW

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