



**DOSPEL**

Lider Wentylacji

- SINCE 1974 -

# Wind Turbine Controller COBRA

## Control and Braking Switchboard



## Product Description:

The COBRA controller is a complete control and protection unit designed to operate with wind turbines. The device is integrated into a plastic switchboard, intended for indoor installation. Inside the enclosure, there is an electronic charge controller manufactured by Dospel S.A.

## The controller includes a braking system consisting of:

- Service brake (manual)
- Automatic electric brake based on  $2 \times 100\text{W}$  power resistors
- Solid-state relay (SSR)
- Rectifier bridges

## 2. Technical Data:

- Rated voltage: 230V AC
- Input voltage range: 0 – 1000V AC
- Output voltage range: 0 – 58V DC
- Self-power consumption: 0.1W – 3W
- Charge controller type: Electronic with power curve (MPPT)
- Braking system: SSR +  $2 \times 100\text{W}$  resistors
- Protection functions: Overcharge, overvoltage, automatic braking
- Operating mode: Continuous
- Operating temperature:  $-10^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$
- Cooling: Passive, via ventilation openings
- Enclosure dimensions: 585mm  $\times$  319mm  $\times$  144mm
- Weight: approx. 3.1 kg
- Installation: Indoor (IP limited by ventilation)

## 3. Design and Construction:

Enclosure: Plastic (ABS or similar), light grey color

Ventilation: Side ventilation openings – not suitable for outdoor conditions

Mounting: Wall-mounted or in a technical cabinet

Service access: Removable front cover

## 4. Applications:

- Small wind power plants (off-grid)
- Emergency power supply systems
- Hybrid installations PV + wind turbines
- DIY and educational projects

## 5. Notes and Installation Recommendations:

- Product intended for indoor use only
- Do not install in areas exposed to moisture or dust
- Ensure sufficient ventilation space around the enclosure

## 6. Certificates and Compliance:

- CE – compliant with EMC and LVD directives
- RoHS – free from hazardous substances
- Manufactured in compliance with PN-EN standards for low-voltage devices

## KARTA GWARANCYJNA NR .....

data zgłoszenia i nr zlecenia	data wykonania naprawy	wyszczególnienie materiałów i czynności naprawczych	numer monteru podpis

<p>MODEL:</p> <p>nr fabryczny: .....</p> <p>data sprzedaży: .....</p> <div data-bbox="113 778 395 895" style="border: 1px solid black; padding: 5px; margin: 5px 0;">pieczęć sprzedającego</div> <p>karta gwarancyjna stanowi załącznik do rachunku nr .....</p> <p>data: .....</p> <div data-bbox="113 999 395 1115" style="border: 1px solid black; padding: 5px; margin: 5px 0;">podpis i pieczęć zakładu naprawiającego</div>	<p>MODEL:</p> <p>nr fabryczny: .....</p> <p>data sprzedaży: .....</p> <div data-bbox="426 778 708 895" style="border: 1px solid black; padding: 5px; margin: 5px 0;">pieczęć sprzedającego</div> <p>karta gwarancyjna stanowi załącznik do rachunku nr .....</p> <p>data: .....</p> <div data-bbox="426 999 708 1115" style="border: 1px solid black; padding: 5px; margin: 5px 0;">podpis i pieczęć zakładu naprawiającego</div>	<p>MODEL:</p> <p>nr fabryczny: .....</p> <p>data sprzedaży: .....</p> <div data-bbox="740 778 1022 895" style="border: 1px solid black; padding: 5px; margin: 5px 0;">pieczęć sprzedającego</div> <p>karta gwarancyjna stanowi załącznik do rachunku nr .....</p> <p>data: .....</p> <div data-bbox="740 999 1022 1115" style="border: 1px solid black; padding: 5px; margin: 5px 0;">podpis i pieczęć zakładu naprawiającego</div>
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