# Three-phase wind turbine 450W



ref. EOLYS-500

EOLYS-500 is a three-phase wind turbine 450W belt-linked to a driven motor that simulates the wind strength. This system is suited to class room conditions. It perfectly simulates wind turbine operation without noise or draughts since there is no fan. Protected by a transparent cover, the wind turbine can be seen with no risk of direct contact. EOLYS-500 is more than a simulator because it rotates a true three-phase generator and short blades.



## WIND TURBINE FEATURES

- Three-phase output 3 x 53V AC - 450W at 370 rpm on safety terminals.
- Direct current output 90V DC - 450W at 370 rpm on safety terminals.
- Selection of these outputs by using an included rectifier or by direct connection.
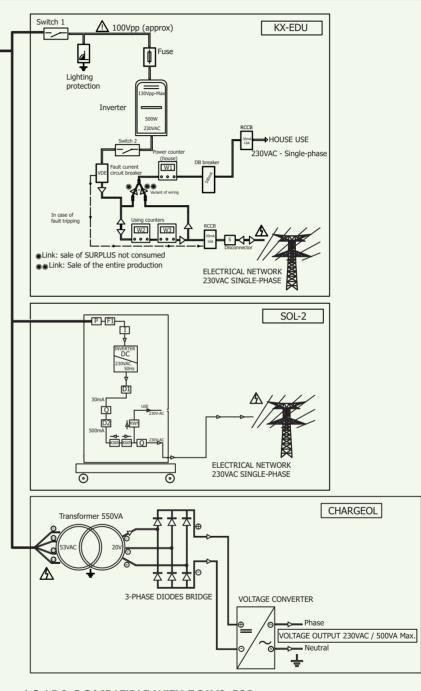
## FEATURES OF THE WIND SIMULATION

- Squirrel-cage three-phase asynchronous motor.
- Speed controller simulating wind turbine speed 0-400 rpm.
- Using the supplied SOMOVE software, the PC operations are:
    - Acceleration of the wind speed.
    - Deceleration of the wind speed.

## GENERAL FEATURES

- Wheeled frame with brakes
- Overall dimensions: 750 x 670 x (h) 1500 mm
- Top cover made with aluminium frame and Lexan sides (translucent and unbreakable).
- Power supply 2P+N+E 230V AC - 50/60 Hz (5m lead with mains plug)
- Supplied with: Practical assignments in the form of measurements/tests; RJ45-USB cable for linking between the speed controller and the PC. Schneider® SoMove software.

## LOADS COMPATIBLE WITH EOLYS-500

At the output of this wind turbine, several loading solutions are offered in order to perform practical assignments in renewable energy..

- Three-phase/single-phase voltage conversion        Ref: CHARGEOL
- Kit for injecting energy into the 230V AC network   Ref: KX-EDU
- Central unit with injection into the 230V AC network Ref: SOL-2
- Network inverter  500W                              Réf : CIA-OND05
  and its fault controller                            CIA-VDE