Interface Wind + rectifies, controls and filters the energy produced by the wind turbine, and supplies energy suitable for use in different applications:

- **Grid connection**, interface supply direct current to a grid connection inverter. Available with ABB Wind grid connection inverters.

- **Water pumping**, interface supplies energy directly to the water pump, direct current to work with pumps like or alternate current at 230 V three phases to work with any kind of pump or motor.

- **Telecom**, this interface delivers direct current to supply directly to the telecom rectifiers or alternate current to the telecom inverters, depending of the telecom electronics manufacturer.

ModBus Communication, allows us a bi-directional communications between the different components of the system: for energy management, monitoring, parameters change ...

### Specifications

#### Wind Turbine Input
- **Input**: Three phases AC
- **Connectors**: MC4
- **Operating Voltage Range**: 80 – 480 Vac
- **Maximum Voltage**: 510 Vac
- **Maximum power**: 3000 W (Wind 13+) / 6000 W (Wind 25+)
- **Braking resistors**: 5000 W (Wind 13+) / 10000 W (Wind 25+)
- **Overvoltage protection**: Varistors

#### Output
- **Current**: DC / AC
- **Connectors**: MC4
- **Voltage range**: 80 – 380 Vac / 100 – 450 Vcc
- **Overvoltage Protection**: IGBT

#### Operational
- **Stand by Consumption**: < 3 W
- **Max. Power consumption**: < 30 W

#### Connections
- **Anemometer**: Yes, optional
- **Communications**: 2 x RS485 / 1 x RS232
- **USB**: 1 x mini USB Type B female
- **Bluetooth**: Optional with Bornay Bluetooth dongle
- **Emergency stop**: Yes, brake switch
- **Remote emergency stop**: Yes, with external interruptor
- **Relay**: Free potential relay, COM, NO, NC
- **Digital auxiliary inputs**: 2
- **Digital outputs**: Pulse frequency output to synchronize with inverters that allows F-P power curves signal

#### Physical
- **Enclosure Rating**: IP20
- **Material**: Aluminium
- **Color**: RAL7035
- **Cooling**: Forced ventilation
- **Mounting System**: Wall installation
- **Dimensions**: 399 x 494 x 190 mm
- **Packaging**: 280 x 480 x 560 mm – 0,08 m3
- **Weight**: 14 Kg (Wind 13+) / 18,5 Kg (Wind 25+)
- **Packaging weight**: 16,5 Kg (Wind 13+) / 21 Kg (Wind 25+)