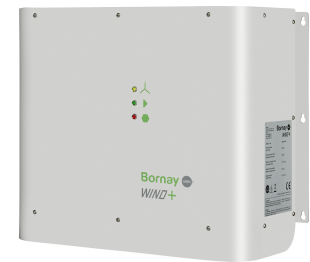
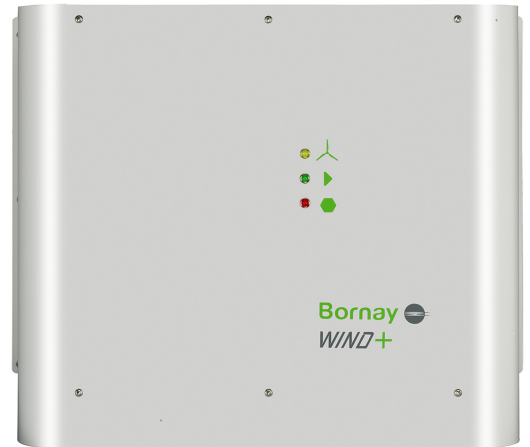


Interface Wind + rectifies, controls and filter the energy produced by the wind turbine, and supplies energy suitable for use in different applications:

- **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
Conectors	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 220 x 490 x 353 mm (Optional Telecom Rack)
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+)

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