

## WIND ENERGY: WIND INVERTER

### WINDZET

Range of wind power inverters from 25 KW to 100 KW

#### Description



The range of WINDZET wind power inverters is designed to cover the needs of all wind power generating plants connected to mains networks.

The WINDZET 25/100 KW combines design and versatility with easy handling and modularity. WINDZET inverters offer outstanding 96% efficiency with a transformer and 98% without transformer. WINDZET units provide high levels of reliability and guaranteed operation.

Another important feature is automatic regulation of reactive power and built in communications tools. All their parameters are configurable both locally and remotely. Data and parameters could be displayed via Internet browser.



Windzet 100

#### Features

- > Very low harmonic distortion THD< 3%
- > Selectable power factor
- > Direct mains connection
- > Possibility of unlimited parallel connection
- > Anti-islanding protection with automatic shutdown
- > Monitoring from the unit with LCD
- > Galvanic isolation through transformer
- > IP21 protection level
- > Protection against: inverse polarity, short-circuits, overvoltages with output to relay
- > Service life of more than 20 years
- > Web server programme for PC for full access to Windzet data
- > Maximum efficiency
- > Modularity
- > Unlimited parallel connections
- > Automatic reactive power regulation
- > Inverter output at 400 V with
- > DC and AC surge protections included
- > ETHERNET communications
- > Easy access through any web browser

on-grid solar plants

mid voltage solar plants

hybrid generation

energy saving

telecom back up

wind energy



NON - STOP POWER

ZIGOR

**ELECTRICAL CHARACTERISTICS**

| Model                           | Windzet 25                  | Windzet 100 |
|---------------------------------|-----------------------------|-------------|
| Reference                       | 015703                      | 301202      |
| Continuous output power AC      | 25 KW                       | 100 KW      |
| Nominal DC power                | 27 KW                       | 105 KW      |
| Nominal AC voltage              | 380-400 V                   |             |
| Nominal frequency               | 50 Hz                       |             |
| Power Factor                    | 1 adjustable $\pm$ 0.8      |             |
| Maximum line current AC         | 45 A                        | 180 A       |
| AC current distortion           | < 3% THD at nominal power   |             |
| Maximum open circuit voltage DC | 800 V <sup>(1)</sup>        |             |
| Power tracking range (MPPT) DC  | 300 to 720 V                |             |
| Maximum input current DC        | 75 A                        | 300 A       |
| Surge efficiency                | 96 % (includes transformer) |             |
| European efficiency             | > 94,95 %                   |             |

**ENVIRONMENTAL AND MECHANICAL FEATURES**

|   |                              |                   |
|---|------------------------------|-------------------|
| Range of ambient temperatures             | 0°C a + 50°C <sup>(2)</sup>  |                   |
| Type or grade of environmental protection | IP21                         |                   |
| Weight                                    | 330 KG                       | 1020 KG           |
| Dimensions (HxWxD) (mm)                   | 1980 X 800 X 600             | 2150 X 1200 X 600 |
| Operating altitude                        | < 1000m without power loss   |                   |
| Relative humidity                         | 0 a 95% without condensation |                   |

**GENERAL FEATURES**

|   |   |  |
|---|---|--|
| Cooling method                            | Forced internal ventilation<br>Control of external fan (6A Max.)                      |  |
| Protection functions                      | Inverse polarity, Over/ sub-voltage AC, Over/ Sub-frequency, Overvoltage DC           |  |
| User interface                            | LCD screen  |  |
| Breakers (AC and DC)                      | Integrated in system (optional)   |  |
| Insulation transformer                    | Built into inverter (optional)  |  |
| Communications software                   | Web server through SNMP   |  |
| Equipment supervision:<br>Self-diagnostic | Yes   |  |
| Data acquisition and recording            | Adjustable  |  |
| SWS 1000 Scada system (option)            | Ethernet, GSM Modem (optional)<br>Remote failure control RS-485, Monitoring programme |  |
| External measurements                     | 2 analogue inputs for monitoring (optional)<br>Digital Inputs/Outputs                 |  |

**STANDARDS AND SAFETY**

|              |   |  |
|--------------|---|--|
| Certificates | CE Marking  |  |
| Directives   | 2004/108/CE<br>2006/95/CE                                       |  |
| Standards    | EN 61000-6-2<br>EN 61000-6-3 / EN 61000-6-3/A11<br>UNE-EN 50178 |  |

(1) The DC field voltage value must not exceed 880VDC under any circumstances.

(2) Under 40° C, the system operates with nominal values, at 50° C, nominal values are maintained for two hours.

These specifications may be changed without notice.