



WINDINVERT

WIND POWER INVERTER

Especially developed for
SMALL WIND TURBINES
300 watt - 2400 watt



WINDINVERT inverter Product features

- ⊕ Made in Germany
- ⊕ Complete grid feed-in system with integrated rectifier
- ⊕ Integrated surge protection
- ⊕ Power failure and short-circuit brake
- ⊕ Power curve tracking ensures optimal use of wind
- ⊕ Energy Customisable power curve
- ⊕ Galvanic isolation for extra safety

Technical data and types

	WINDINVERT 300-24	WINDINVERT 600-24	WINDINVERT 1200-24
Specifications			
Dimension (HxWxD) [mm]	220 x 380 x 122	264/300 x 475 x 157	331/372 x 533 x 204
Weight [kg]	9	10	15,8
Type	Angular	Round	Round
Input side (DC)			
Maximum input power [W]	300	600	1200
Operating DC input voltage range [V DC]	14 - 37	18 - 50	18 - 50
Cut in voltage [V DC]	15	19	19
Rated DC input voltage [V]	24	24	24
Maximum DC input voltage	Short circuit brake automatically limited to 72 V	Short circuit brake automatically limited to 75 V	Short circuit brake automatically limited to 75 V
Output side (AC)			
Rated AC power [W]	200	500	950
Maximum AC output power [W]	250	540	1050
AC voltage range [V AC]	230 +10 / -20 %	230 +10 / -20 %	230 +10 / -20 %
Output current	Controlled sine	Controlled sine	Controlled sine
Rated frequency [Hz]	50 Hz +1,5/-2,5%	50 Hz +1,5/-2,5%	50 Hz +1,5/-2,5%
Power factor	1	1	1
Operation performance			
Maximum efficiency [%]	91,00	91,00	91,00
Feed in power threshold	2	4	6
Stand-by consumption	0,2	0,2	0,2
Environment			
Ambient temperature range [C°]	(-)25° - 70°	(-)25° - 70°	(-)25° - 70°
Humidity range [%]	0 - 95	0 - 95	0 - 95
EMC standard/grid standard	DIN VDE 0838, EN 60555, EN 50178, EN 61000-3-2, EN 61000-3-3, EN 61000-6-2, EN 61000-6-3	DIN VDE 0838, EN 60555, EN 50178, EN 61000-3-2, EN 61000-3-3, EN 61000-6-2, EN 61000-6-3	DIN VDE 0838, EN 60555, EN 50178, EN 61000-3-2, EN 61000-3-3, EN 61000-6-2, EN 61000-6-3
Noise emission [dB]	35	35	35
Environmental protection rating	IP 54	IP 54	IP 54
Isolation level	NF - toroidal transformer	NF - toroidal transformer	NF - toroidal transformer
Marking	CE	CE	CE
Transient protection	Varistor type 2	Varistor type 2	Varistor type 2
Warranty			
Product warranty	2 years	2 years	2 years

Technical data and types

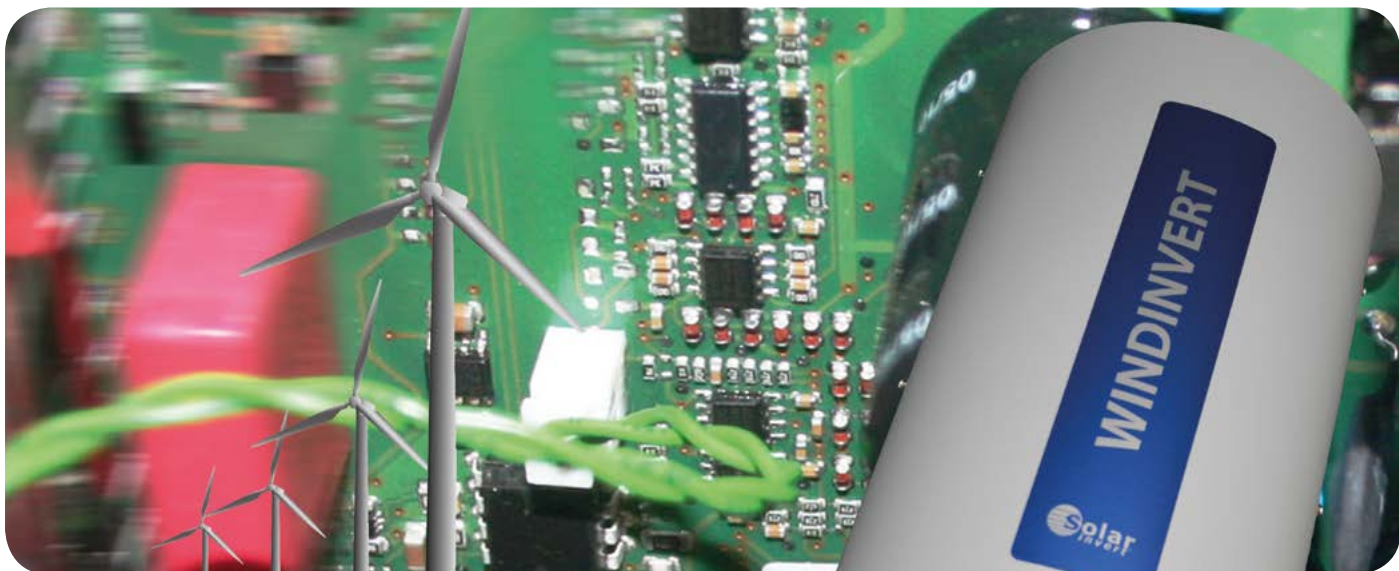
	WINDINVERT 800-36	WINDINVERT 1200-36	WINDINVERT 600-48
Specifications			
Dimension (HxWxD) [mm]	264/300 x 475 x 157	331/372 x 533 x 204	264/300 x 475 x 157
Weight [kg]	11,8	11,8	10,5
Type	Round	Round	Round
Input side (DC)			
Maximum input power [W]	800	1200	800
Operating DC input voltage range [V DC]	22 - 62	23 - 65	28 - 80
Cut in voltage [V DC]	23	24	29
Rated DC input voltage [V]	36	36	48
Maximum DC input voltage	Short circuit brake automatically limited to 120 V	Short circuit brake automatically limited to 110 V	Short circuit brake automatically limited to 120 V
Output side (AC)			
Rated AC power [W]	650	940	600
Maximum AC output power [W]	710	1060	720
AC voltage range [V AC]	230 +10 / -20 %	230 +10 / -20 %	230 +10 / -20 %
Output current	Controlled sine	Controlled sine	Controlled sine
Rated frequency [Hz]	50 Hz +1,5/-2,5%	50 Hz +1,5/-2,5%	50 Hz +1,5/-2,5%
Power factor	1	1	1
Operation performance			
Maximum efficiency [%]	92,50	92,00	92,00
Feed in power threshold	4	6	4
Stand-by consumption	0,2	0,2	0,2
Environment			
Ambient temperature range [C°]	(-)25° - 70°	(-)25° - 70°	(-)25° - 70°
Humidity range [%]	0 - 95	0 - 95	0 - 95
EMC standard/grid standard	DIN VDE 0838, EN 60555, EN 50178, EN 61000-3-2, EN 61000-3-3, EN 61000-6-2, EN 61000-6-3	DIN VDE 0838, EN 60555, EN 50178, EN 61000-3-2, EN 61000-3-3, EN 61000-6-2, EN 61000-6-3	DDIN VDE 0838, EN 60555, EN 50178, EN 61000-3-2, EN 61000-3-3, EN 61000-6-2, EN 61000-6-3
Noise emission [dB]	35	35	35
Environmental protection rating	IP 54	IP 54	IP 54
Isolation level	NF - toroidal transformer	NF - toroidal transformer	NF - toroidal transformer
Marking	CE	CE	CE
Transient protection	Varistor type 2	Varistor type 2	Varistor type 2
Warranty			
Product warranty	2 years	2 years	2 years

Technical data and types

	WINDINVERT 1000-48	WINDINVERT 1500-48	WINDINVERT 2000-48
Specifications			
Dimension (HxWxD) [mm]	264/300 x 475 x 157	331/372 x 533 x 204	331/372 x 533 x 204
Weight [kg]	11,8	19,4	24,6
Type	Round	Round	Round
Input side (DC)			
Maximum input power [W]	1000	1600	2000
Operating DC input voltage range [V DC]	28 - 80	28 - 80	41 - 100
Cut in voltage [V DC]	29	29	42
Rated DC input voltage [V]	48	48	48
Maximum DC input voltage	Short circuit brake automatically limited to 120 V	Short circuit brake automatically limited to 120 V	Short circuit brake automatically limited to 120 V
Output side (AC)			
Rated AC power [W]	800	1300	1600
Maximum AC output power [W]	900	1410	1800
AC voltage range [V AC]	230 +10 / -20 %	230 +10 / -20 %	230 +10 / -20 %
Output current	Controlled sine	Controlled sine	Controlled sine
Rated frequency [Hz]	50 Hz +1,5/-2,5%	50 Hz +1,5/-2,5%	50 Hz +1,5/-2,5%
Power factor	1	1	1
Operation performance			
Maximum efficiency [%]	93,00	92,00	92,00
Feed in power threshold	5	7	10
Stand-by consumption	0,2	0,2	0,2
Environment			
Ambient temperature range [C°]	(-)25° - 70°	(-)25° - 70°	(-)25° - 70°
Humidity range [%]	0 - 95	0 - 95	0 - 95
EMC standard/grid standard	DIN VDE 0838, EN 60555, EN 50178, EN 61000-3-2, EN 61000-3-3, EN 61000-6-2, EN 61000-6-3	DIN VDE 0838, EN 60555, EN 50178, EN 61000-3-2, EN 61000-3-3, EN 61000-6-2, EN 61000-6-3	DIN VDE 0838, EN 60555, EN 50178, EN 61000-3-2, EN 61000-3-3, EN 61000-6-2, EN 61000-6-3
Noise emission [dB]	35	35	35
Environmental protection rating	IP 54	IP 54	IP 54
Isolation level	NF - toroidal transformer	NF - toroidal transformer	NF - toroidal transformer
Marking	CE	CE	CE
Transient protection	Varistor type 2	Varistor type 2	Varistor type 2
Warranty			
Product warranty	2 years	2 years	2 years

Technical data and types

	WINDINVERT 1600-120	WINDINVERT 2000-120	WINDINVERT 2400-120
Specifications			
Dimension (HxWxD) [mm]	331/372 x 533 x 204	331/372 x 533 x 204	331/372 x 533 x 204
Weight [kg]	19	24	28
Type	Round	Round	Round
Input side (DC)			
Maximum input power [W]	1600	2000	2400
Operating DC input voltage range [V DC]	54 - 155	54 - 155	54 - 155
Cut in voltage [V DC]	55	55	55
Rated DC input voltage [V]	120	120	120
Maximum DC input voltage	Short circuit brake automatically limited to 175 V	Short circuit brake automatically limited to 175 V	Short circuit brake automatically limited to 175 V
Output side (AC)			
Rated AC power [W]	1300	1600	1900
Maximum AC output power [W]	1450	1840	2160
AC voltage range [V AC]	230 +10 / -20 %	230 +10 / -20 %	230 +10 / -20 %
Output current	Controlled sine	Controlled sine	Controlled sine
Rated frequency [Hz]	50 Hz +1,5/-2,5%	50 Hz +1,5/-2,5%	50 Hz +1,5/-2,5%
Power factor	1	1	1
Operation performance			
Maximum efficiency [%]	93,00	94,00	93,00
Feed in power threshold	7	10	12
Stand-by consumption	0,2	0,2	0,2
Environment			
Ambient temperature range [C°]	(-)25° - 70°	(-)25° - 70°	(-)25° - 70°
Humidity range [%]	0 - 95	0 - 95	0 - 95
EMC standard/grid standard	DIN VDE 0838, EN 60555, EN 50178, EN 61000-3-2, EN 61000-3-3, EN 61000-6-2, EN 61000-6-3	DIN VDE 0838, EN 60555, EN 50178, EN 61000-3-2, EN 61000-3-3, EN 61000-6-2, EN 61000-6-3	DIN VDE 0838, EN 60555, EN 50178, EN 61000-3-2, EN 61000-3-3, EN 61000-6-2, EN 61000-6-3
Noise emission [dB]	35	35	35
Environmental protection rating	IP 54	IP 54	IP 54
Isolation level	NF - toroidal transformer	NF - toroidal transformer	NF - toroidal transformer
Marking	CE	CE	CE
Transient protection	Varistor type 2	Varistor type 2	Varistor type 2
Warranty			
Product warranty	2 years	2 years	2 years



Wind power inverter for small-scale systems

Especially designed for 24 and 48 V wind turbines, the wind power inverters directly convert the three-phase current generated by small wind turbines rated at between 600 and 2400 W into 230 V alternating current for use in the home. It is even possible for wind energy to be directly fed into the domestic electricity supply network and public grid in areas with low to moderate amounts of wind.

The inverter's off-grid safety devices and the wind turbine's electronic brake act as safeguards in stormy weather. Thanks to its built-in rectifier, the system is extremely simple to install and saves significant costs.

All WindInvert models feature large voltage ranges on their power curves. The integrated surge brake module and circuit for protection against storms guarantee high operating safety. The wind power plant and the surrounding area are reliably and continuously protected, provided that the wind energy output is less than the inverter's maximum peak power capacity and the wind turbine is permanently short-circuit proof.

The inverter also includes surge protection and a built-in battery for use during power failures. Furthermore, the WindInvert can be seamlessly adapted to the wind turbine's power curve at 16 points, enabling maximum yields to be generated at all times.

Advantages of WindInvert

- +** Made in Germany
- +** Extensive safety features comprising integrated surge protection and a power failure and short-circuit brake
- +** Complete grid feed-in system with integrated rectifier
- +** Customisable power curve
- +** Galvanic isolation for extra safety
- +** Power curve tracking ensures optimal use of wind energy
- +** RS485 interface for data transfer and monitoring



SOLARINVERT GmbH

Alte Bahnlinie 8
D-71691 Freiberg
Germany

T + 49 (0) 71 41/299 21- 13

F + 49 (0) 71 41/299 21- 21

E info@solarinvert.de

I www.solarinvert.de

