Vertical Wind Power

Upto 3KW to 10KW

Household power generator   **Smooth body**   **Rainproof**   **Snowproof**   **Big power**

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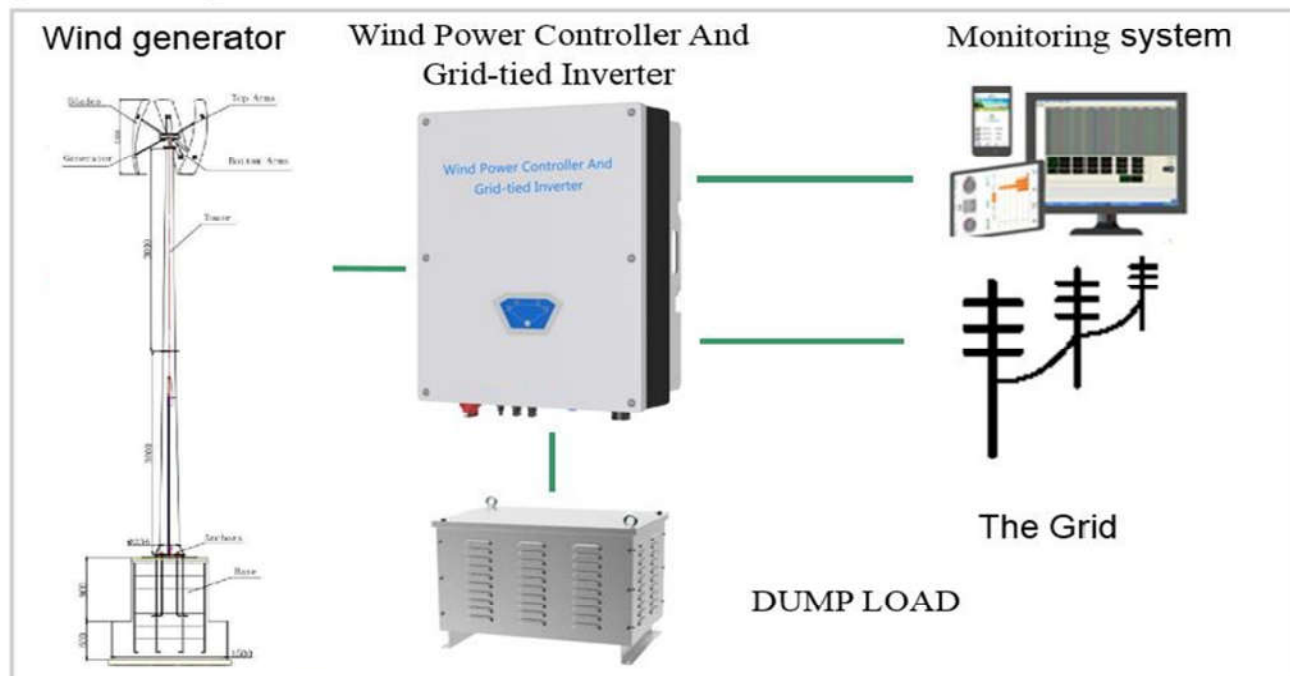**Tel:** +92 42 35715206
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NWTIP Series Wind Power controller And Grid-tied Inverter

NWTIP Series is wind power grid-tied controller&inverter integrated machine with MPPT function. It looks concise and can be easily operated.

Product Image

System Diagram

Applications

➢Distributed wind power grid-tied system.

➢Solar&wind hybrid power grid-tied system.

➢Wind power grid-tied system.

Features

➢Wind Controller&Inverter integrated machine.

➢MPPT included, and 30-point power curve can be settable.

➢Complete protection functions.

➢RS485 monitoring mode optional.

Technical Parameters

Model	NWTIP100
Wind Turbine Input	
Rated input power	10kW
Max. input power	15kW
Rated input voltage	380Vac
MPPT voltage range	100Vac~450Vac
Rated input current	15.2A
Max input current	22.8A
Cutting speed	60RPM（factory default，0-1499RPM settable）
Power tracking	30 points set power curve
Speed limit control	Electromagnetic speed limit
Manual brake	keep pressing the button 5s unload completely,and then recover by pressing it for another 5s
	Tune the switch on the panel to"BRAKE",three-phase AC short cricuit,turn to "RUN" to run.
Brake by overcurrent	22A（factory default,0-26A settable）it dumps load completely when overcurrent,and will recover after 10mins automatically
Brake by over rotational Speed (optional)	300r/min（factory default，0~1499r/min settable）Unload completely when reached the set rotational speed, and recover automatically after 10mins.

Brake by over wind speed (optional)	18m/s (0~30m/s settable), it dumps load completely when reached the set wind speed, and recover automatically after working 10mins and wind speed is less than 15m/s.

AC Output	
Grid Type	Three-phase
Rated output power	10kW
Max output power	11kW
Rated Grid voltage	380Vac
Grid voltage range	85%~110% of rated grid voltage
Rated Grid frequency	50Hz/60Hz
Work frequency range	49Hz~51Hz/59Hz~61Hz
Rated output current	15.2A
Rated power factor	＞0.98
Thdi	＜5% (at rated power)
DC component	＜0.5%
soft start	Yes
Restoring grid-connected functionalit	Yes
Auto on/off	Yes

Protection Functions	
Grid overvoltage/undervoltage protection	YES
Grid over frequency/under frequency protection	YES
output short circuite protection	YES
Grid power failure protection	YES
Anti-islanding protection	YES
Over-temperature protection	YES
Lightning protection	YES
Residual current protection	YES

General Parameters	
Display mode	LED
Display information	dump load, grid state, wind generator state, faults
Monitoring mode(optional)	RS485/GPRS

Monitoring contents	Telemetry: wind turbine speed, grid voltage, output power, power generation; Remote signal: wind turbine status, wind power grid-connected inverter over-current alarm, over-voltage alarm, over-temperature alarm, fault alarm, etc.; Remote control: modify the parameters of the wind power
Efficiency	＞95%
Ambient temperature	-20℃～+40℃
Humidity	0%~90%, no condensing
Vibration resistance	Can withstand sine wave vibration with a frequency of 10Hz~50Hz and an amplitude of 0.35mm
Noise	≤65dB
Cooling mode	Natrual cooling
Cover protection class	IP65（dump load IP54）
Product reference dimension	490×658×223mm
Product reference weight	37kg
Dump load reference dimension	673×730×453mm
Dump load reference weight	75kg

Note: Part of parameters can be adjusted according to customer's specific demand.