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EN Set Horizontal wind turbine G-Series RX-50KG 50 kW 380 V, grid-tie inverter&controller WWGIT 50 kW 380 V

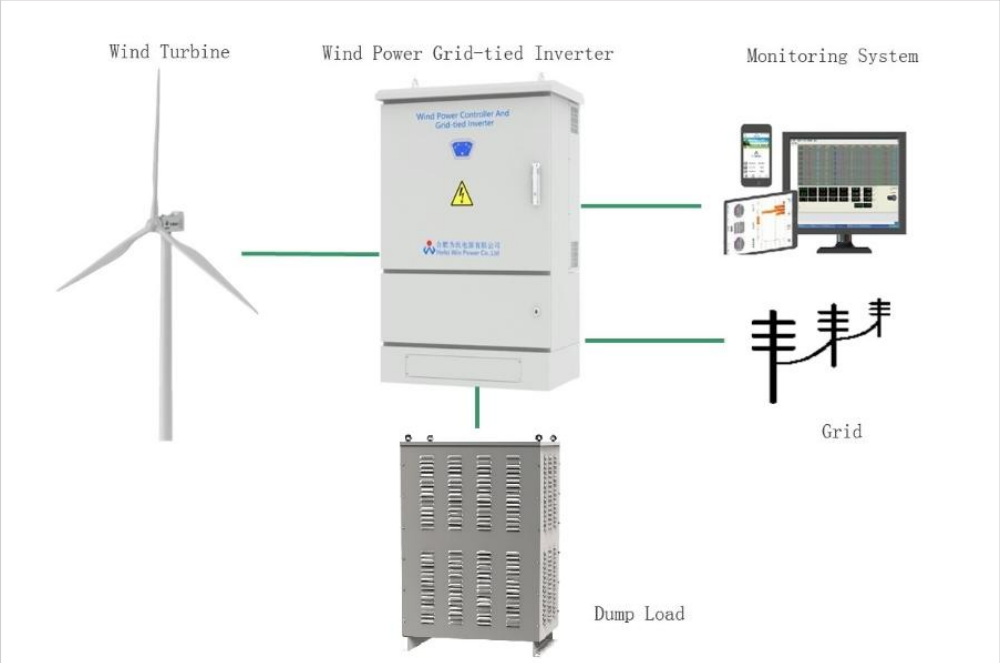
WWGIT Series 50kW Wind Power controller

And Grid-tied Inverter

WWGIT 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

➢Controller&Inverter integrated system (only for wind power generation)

➢30-point power curve can be set

➢Complete protection functions

➢RS485/GPRS monitoring modes optional

➢Support standard modbus protocol

➢Optional pitch yaw function

Technical Parameters

Model	WWGIT500
Wind turbine input	
Rated input Power	50kW
Max input Power	75kW
Rated input voltage	380Vac
MPPT voltage range	100Vac~450Vac
Rated input current	76A
Max input current	114A
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 position",three-phase AC short cricuit,turn to "RUN" position to run.
Brake by overcurrent	110A（factory default,0-132A settable）it dumps load completely when overcurrent,and will recover after 10mins automatically
Brake by over rotational speed(optional)	300RPM（factory default，0~1499RPM settable）unload completely when reached the set rotational speed ,and recover automatically after 10mins
Brake by over wind speed(optional)	18m/s（0~30m/settable），it dumps load completely when reached the set wind speed ,and recover automatically after 10mins
AC output	

Grid type	Three phase
Rated output power	50kW
Max output power	55kW
Rated output voltage	380Vac
Grid voltage range	85%~110% of rated grid voltage
Rated grid frequency	50Hz/60Hz adaptive
work frequency range	49Hz~51Hz/59Hz~61Hz
Rated output current	76A
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 informational	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 grid-connected inverter and control the braking of the wind turbine
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	1000×1450×440mm
Product reference weight	150kg
Dump load reference dimension	1380×920×650mm
Dump load reference weight	205kg

Horizontal Wind Turbine G-Series
RX-50KG 50 kW

Model	RX-50KG
Rated Power	50KW
Max Power	55KW
Blades Length	5.8m
Wheel Diameter	11.82m
Blades Quantity	3
Rated Voltage	220~480V
Start Up Speed	2.5m/s
Rated Speed	12m/s
Cut-in Speed	3m/s
Survival Speed	45m/s
Blades Material	Glass fiber
Generator Type	Three Phase Permanent Magnet Generator
Working Temperature	-80℃~+80℃
Protection Level	IP54
Working environment humidness	≤90%
Altitude	≤4500m
Tower Type	Guyed Cable Tower
Gross Weight	1250kg
Packing List(cm)	156*72*96 591*55*62 145*122*5 65*65*32