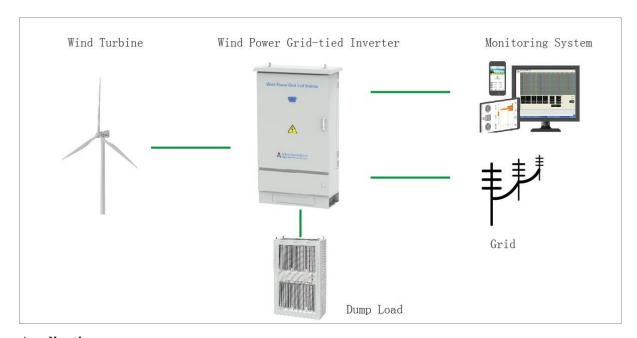# WWSPCS500　50KW Wind Power Grid-tied Inverter

WWSPCS500 is wind power grid-tied controller&inverter integrated machine with MPPT function. Wind turbine rated input power is 50KW. Three-phase grid-tied inverter power is 50KW. It looks concise and can be easily operated. The inverter has a wind turbine yaw control system, which is suitable for outdoor installation.

System Diagram

Applications

Distributed wind turbine power grid-tied system；　Wind power grid-tied system.

Features

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

➢MPPT included, and 30 points settable

➢ AC short circuit, surge, anti-islanding, over-temperature, overvoltage, overload, etc. protection

　 functions.

➢RS485, RS485, GPRS monitoring mode optional.

➢Complete wind turbine yaw control system

➢Cover protection class: IP65, suitable for outdoor installation

Technical Parameters

Model	WWSPCS500
Wind Turbine Input	
Rated input power	50kW
Rated input voltage	450Vac
Input voltage range	80~600Vac
Rated input current	65Aac
Manual brake	Keep pressing the button for 5s to unload completely, and then recover by pressing it for another 5s.
	Switch "ON" the brake switch
Brake by overcurrent	78A (factory default, 0~78A settable) it dumps load completely when overcurrent, and will recover after 10 mins automatically.
Brake by over wind speed（optional）	18m/s（factory default, 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.
Brake by over rotational Speed（optional）	500r/min（factory default，0~1000r/min settable）Unload completely when reached the set rotational speed, and recover automatically after 10mins.
AC Output	
Grid Type	Three-Phase
Rated output power	50kW
Rated Grid voltage	380Vac
Grid voltage range	320~420Vac
Rated Grid frequency	50Hz
Work frequency range	49Hz~51Hz
Rated output current	76A
Rated power factor	＞0.99
THD	＜3% (at rated power)

Protection Functions	
AC output overvoltage/ undervoltage protection	YES
AC output overfrequency /underfrequency protection	YES
DC input overload protection	YES
AC short circuit protection	YES
Surge protection	YES
Anti-islanding protection	YES
Over-temperature protection	YES
Lightning protection	YES
General Parameters	
Display mode	LED
Display information	dump load, grid state, wind generator state, faults
Monitoring mode(optional)	RS485/GPRS
Monitoring contents	wind rotational speed/power, grid voltage, output voltage/power
Efficiency	＞95%
Isolation mode	No transformer
Ambient temperature	-20℃～+40℃
Humidity	0%~ 90%, No condensing
Cooling mode	Forced air cooling
Noise	≤65dB