

Wind Power Grid Tie Inverter



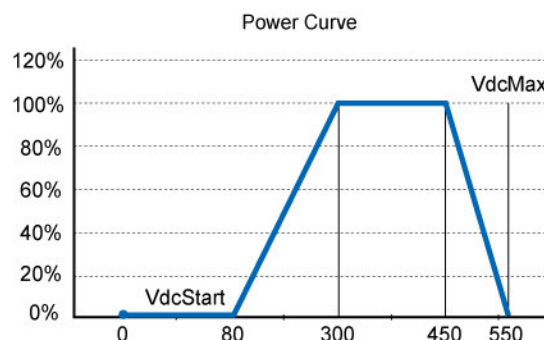
CTW-3KS / CTW-3.6KS / CTW-5KS

Product Features

- Inverters and controllers could import the AC current from wind power electronic generator into grid after commutating and inverting. Wind power grid tie inverter is the core product that converts wind mechanical power to AC current power, which then will be input to the grid. The product is very efficient and reliable, and also has low frequency.
- IPM could convert AC current from electronic generator to AC current that has the same frequency as the grid, and then send the AC current into grid after the process of voltage transformer and wave filter.
- The inverter has the cooling feature using smart fan wind, and it also has a compact, safe, and simple structure. The solid design also allows the inverter to be parallel connected to wind turbine with higher power.
- Because of the layout of the voltage transformer, the input range could reach 60VDC ~ 550 VDC. Even though the wind speed is low, the inverter could still send power to the grid.



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Technical Data

Model	CTW-3KS	CTW-3.6KS	CTW-5KS
Input Parameter			
Range of MPPT Voltage (DC)	60V - 550V		
Maximum Power of Turbine	3300W	4000W	5500W
DC Voltage VPP	VPP < 10 %		
Output Parameter			
Power Rating	3000W	3600W	5000W
Range of Grid Voltage	190 – 260V AC		
Range of Grid Frequency	Choice of either 50Hz or 60Hz		
Power Factor	> 0.99		
Maximum Efficiency	94%		
Standby Consumption	< 11 W		
Protections	Anti-island, Over Temperature, Over Load, Over Current, Over Voltage		
Total Harmonic Distortion (THD)	< 4 %		
Mechanical Characteristics			
Dimensions W×H×D in mm	480/680/235		
Weight	56kg	60kg	67kg
Protection Level	IP65		
Installation Method	Wall-mounted		
Working Environment Temperature	-25°C ~ +60°C Lower rating when above 40°C		
Storage Temperature	-40°C ~ +70°C		
Inverter Characteristics			
Cooling Method	Fan & Convection		
Display	LCD & Signal Lamps		
Communication	RS485		
Points of Power Curve	Minimum 5, Maximum 20.		



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