

Wind Power Grid Tie Inverter



CTW-1.5KS / CTW-2KS

Product Features

- Challengtec manufactures wind power inverters with different specifications, and they have shown an excellent performance in its functions and handling ability.
- Challengtec's wind power grid tie inverter could convert unstable fluctuating AC current from electronic generator to AC current with stable voltage and frequency, and then input AC current into grid. At the same time, if the wind power controller outputs DC current, the grid tie inverter could also accept converting DC current output. Challengtec's inverters contain an integrated isolation transformer; therefore, it is possible to connect any quantity of inverters using parallel connection to make it work appropriately with the wind turbine's maximum power.



Standardized Production



Technical Data

Model	CTW-1.5KS	CTW-2KS
Input Parameter		
Range of MPPT Voltage (DC)	40V - 450V	
Maximum Power of Turbine	1600W	2100W
DC Voltage VPP	VPP < 10 %	
Output Parameter		
Power Rating	1500W	2000W
Range of Grid Voltage	196 – 253V 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	555/420/125	
Weight	30kg	32.5kg
Protection Level	IP20	
Installation Method	Wall-mounted	
Working Environment Temperature	-20°C ~ +40°C	
Storage Temperature	-20°C ~ +50°C	
Inverter Characteristics		
Cooling Method	Cooling Fan	
Display	LCD & Signal Lamps	
Communication	RS485	
Points of Power Curve	Minimum 5, Maximum 20.	
EMC	EN61000-6-1:2007 EN61000-6-3:2007	
Safety Standard	IEC 62103:2003(1st Edition) EN50178:1997	
Grid Connecting Standard	DIN VDE 0126-1-1:2006	



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