

SUN WPI-B Series

GRID CONNECTED INVERTER AND WIND TURBINE CONTROLLER WITH MPPT

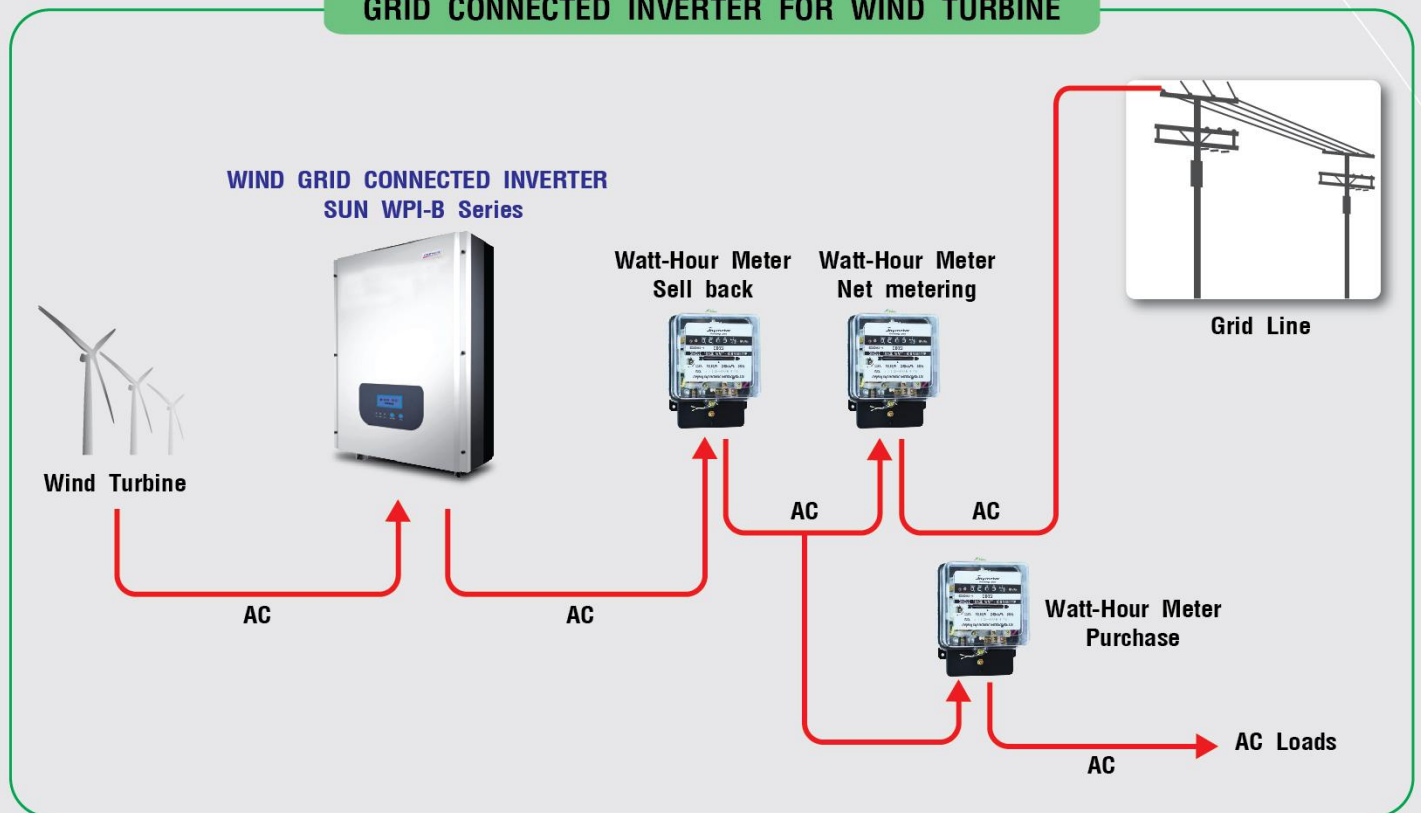
Features:

- Advanced MCU&DSP control technology.
- Excellent Maximum Power Point Tracking control(MPPT)
- High efficiency > 95%.
- Low power consumption
- Ultra wide input voltage range
- Front panel mounted LCD display
- Full protection to ensure high reliability
- Islanding protection function
- IP65 protection grade for outdoor installation
- Communication through RS485/RS232 port of computer, dry contact and Real time monitoring software (option).
- Special design for using at high grid fluctuation area



- Tested to comply with IEC62477, IEC61000-6-2/-3, EN50178, IEC61727, IEC62116, AS4777 and AS3100
- Comply Grid standard VDE 0126-1-1, VDE AR N4105
- ISO 9001:2008, ISO14001, TUV, OHSAS18001 certified manufacturer

GRID CONNECTED INVERTER FOR WIND TURBINE



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Model		WPI3500-B	WPI4200-B
RATED POWER	Wind turbine input(kW)	3.8 kW	4.5 kW
	AC output	3.5 kW	4.2 kW
SYSTEM	Controller& technology	Advanced DSP control and High frequency switching with IGBT technology	
WIND TURBINE INPUT	MPPT voltage range	40-400 Vac	
	Normal input voltage	160 Vac, three phase three wires(L1-L2-L3)	200 Vac, three phase three wires(L1-L2-L3)
GRID LINE	Voltage and phase	For 220 Vac and 230 Vac (-15%, +15%) Single phase according to standard IEC61727, IEC62116,IEC62477	
		For 200-253 Vac, Single phase according to standard AS4777	
	For 200-240 Vac Single phase according to standard of IEC61727, IEC62116(for PEA grid line)		
	For 209-240 Vac Single phase according to standard of IEC61727, IEC62116(for MEA grid line)		
	Frequency	50/60 Hz for 220 Vac and 230 Vac	
	Frequency range	47.5-51.5 Hz (50.2-51.5 Hz derating output power in accordance with VDE AR N4105)	
AC OUTPUT	Power factor	> 0.99 (adjustable by VDE AR N4105)	
	Total harmonic distortion	THDi <3%	
	Wave form	Pure sine wave	
	Overload capability	>110% load	
ISOLATION	Type	Transformerless topology	
EFFICIENCY	Inverter peak (Max.)	>95%	
PROTECTION	System	Over current, Short circuit, under voltage and Over voltage(AC&DC) and Frequency(AC)	
	Islanding operation	Active and passive anti-islanding	
	Over temperature	Automatic shutdown	
	Surge dissipation	220x2 Joules 2/8 microsec wave form for AC grid line and Wind turbine	
	Enclosure	IP65	
INDICATOR	LED display	Power, Run and Fault	
	LCD display	CA / AC voltage, Current, Watt, Today kWh, Accumulated kWh, Date, Clock, Record, Condition setting, Fault	
COMMUNICATION	Interface	RS485/RS232 serial port (software are option)	
	Signal control	Brake signal	
ALARM	Operation alarm	Mains failure, inverter fault	
ALTITUDE		when pass 1000m, according to GB/T 3859.2 to reduce capacitance	
ACOUSTIC NOISE	At 1 metre	Less than 50dB(Fan doesn't run)	
COOLING		Automatic cooling fans	
ENVIRONMENT	Temperature	-25 °C - 60 °C	
	Relative humidity	0-95%(Non-condensing)	
DESIGN REGULATION	Safety and EMC standard	AS 3100, AS4777, EN61000-6-1/-3, EN50178, IEC62477, IEC61727and IEC62116	
	Grid standard	VDE 0126-1-1 and VDE AR N4105	
	Manufacturer process	conform with ROHS GP2 class	
PHYSICAL	Dimension WxDxH(mm)	510x410x165	
	Weight (kg)	26.5	

*Continuous products development is our commitment. In that manner, the above specifications may be changed without prior notice.

Chuphotic.BRO.Wind INV.09 Rev1.00/2013

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