

SUN WPC048 Series

WIND TURBINE CONTROLLER WITH MPPT

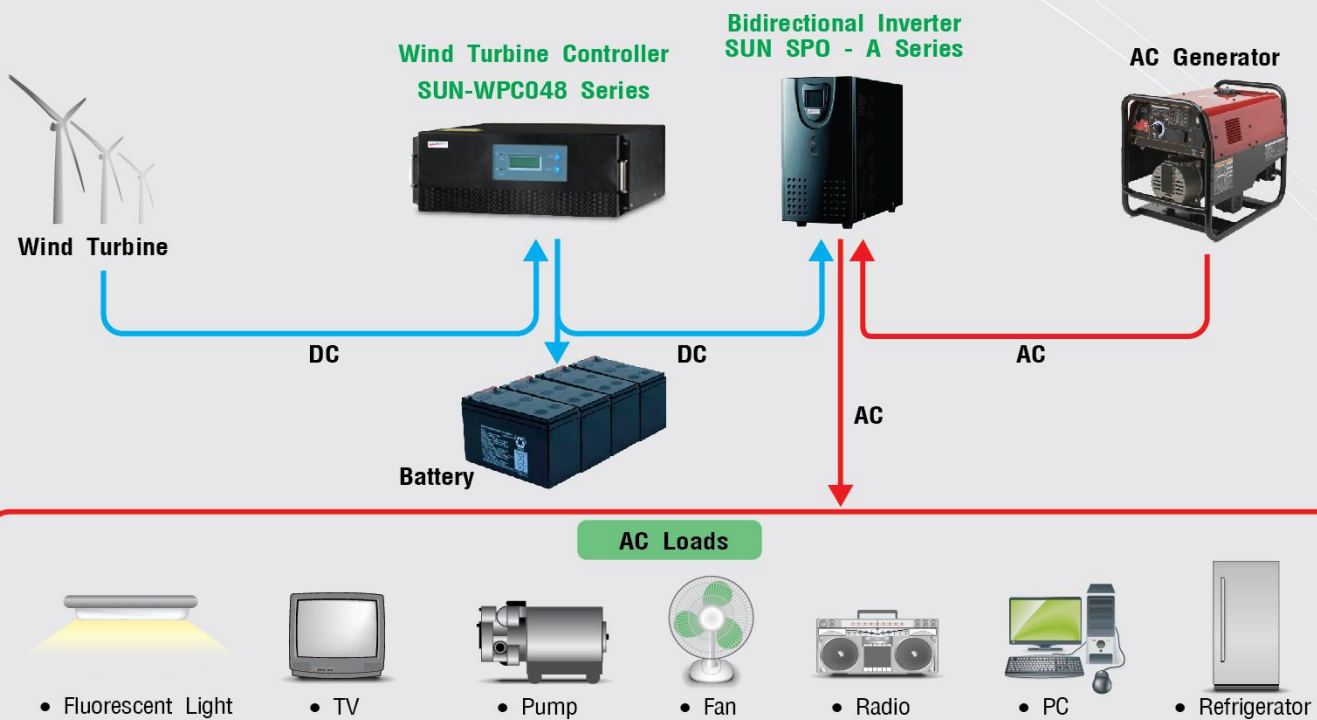


Real time monitoring software (option)

Features:

- Advanced MCU&DSP control technology.
- Excellent Maximum Power Point Tracking control(MPPT)
- Intelligent battery management.
- Communication through RS485/RS232 port of computer, dry contact, and Real time monitoring software (option).
- Low power consumption
- Front panel mounted LCD display
- Full protection to ensure high reliability
- ISO 9001:2008, ISO14001, TUV, OHSAS18001 certified manufacturer

STAND ALONE SOLAR POWER SYSTEM FOR WIND TURBINE



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WIND TURBINE CONTROLLER WITH MPPT

Model		WPC048-40A	WPC048-80A
RATED POWER	DC output(kW)	2 kW	4 kW
SYSTEM	Controller & technology	Advanced DSP control and MPPT control technology	
WIND TURBINE	Power rating	2 kW	4 kW
	Type	Three phase three wires, horizontal axis, downwind, 3 blades	
	MPPT voltage range	45-380 Vac	
	Normal input voltage	0 - 400 Vac, three phase three wires(L1-L2-L3)	
DC OUTPUT	Normal voltage	48 Vdc	
	Efficiency	>95%	
BATTERY	Boost charging voltage	57.6-61.2 Vdc	
	Float charging voltage	54.4 Vdc	
	Over battery voltage	58 Vdc	
	Over battery reconnect voltage	53.8 Vdc	
	Low battery disconnect voltage	43.2 Vdc	
	Low battery reconnect voltage	50.34 Vdc	
	Max. current charging	40 Adc	80 Adc
	Temperature compensation	0-7 mV/ °C	
POWER CONSUMPTION		< 4 W	
PROTECTION	System	Over current, Short circuit, under voltage and Over voltage(DC), battery contrary connection and over temperature	
	Surge dissipation	220x2 Joules 2/8 microsec wave form for AC Wind turbine and DC output	
	Enclosure	IP20	
INDICATOR	LED display	Run and Alarm	
	LCD display	DC & battery voltage, Current, Watt, Today kWh, Accumulated kWh, Date, Temperature, Condition setting, Fault	
ALARM	Operation alarm	short circuit, over current, under voltage, over voltage, over temperature	
COMMUNICATION	DB9-connector	RS485/RS232 serial port interface(software are option)	
	Dry contact	Controller fail, battery, generator startup, low DC, high DC and battery temperature	
ACOUSTIC NOISE	At 1 metre	Less than 50dB(Fan doesn't run)	
COOLING		Automatic cooling fans	
ENVIRONMENT	Temperature	-10 °C - 45 °C	
	Relative humidity	0 - 95%(Non-condensing)	
DESIGN REGULATION	Safety and EMC standard	EN61000-6-1, EN61000-6-3, EN50178 and IEC62477	
PHYSICAL	Dimension WxDxH(mm)	440x420x132	500x420x132
	Weight (kg)	19.5	25

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

Chuphotic.BRO. Wind CNTRL.10 Rev1.00/2013

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