



Economical Solar&Wind Hybrid Controller

Applications

- Power supply for those unmanned regions like mobile communication station, high way, the coastal islands, remote mountainous regions and border posts.
- Regional research projects, government demonstration projects, landscape lighting projects for those places with insufficient power or power shortages.

Features

- Apply for independent wind & solar hybrid system, lighting system and monitoring system.
- LED Display

Technical Parameters

Model	WWS02-12B	WWS04-24B	WWS06-24B
Wind Turbine			
Input			
Rated input power	200W	400W	600W
Rated input voltage	14Vdc	28Vdc	28Vdc
Input voltage range	0~16Vdc	0~32Vdc	0~32Vdc
Rated input current	17Adc	17Adc	25Adc
Manual brake	Press button “READ” “SET” at the same time to unload completely. Then recover by hand.		
Brake by over current	17A (factory default,0~17A settable) Unload completely when reached the set current, and recover automatically after working 10mins.	25A (factory default,0~25A settable)Unload completely when reached the set current, and recover automatically after working 10mins.	
Brake by overvoltage	Refer to “output overvoltage” control		
PV Input Parameters			
Rated input power	100W	200W	200W
Max. open circuit voltage	24V	48V	48V
Rated input current	9A		
Reversed connection protection	YES		
Charge Parameters			
Rated battery voltage	12V	24V	
Temperature compensation function (optional)	-3mV/°C/2V		
Output Parameters			
Rated output voltage	12V	24V	

Output overvoltage point	14.5V (factory default, 11Vdc~16Vdc settable)	29V (factory default, 22Vdc~32Vdc settable)	
Output overvoltage recovery point	13.2V (factory default, reduce 1.3V from the output overvoltage point)	26.4V (factory default, reduce 2.6V from the output overvoltage point)	
Max. Output current	17A	17A	25A
DC Load Output Parameters			
Output loops	2 loops		
Output control mode	Both 2 loops could be set in 7 modes, such as light control on&off, light control on and time control off.		
Output voltage range	10.8V~16V	21.6V~32V	
Undervoltage recovery point	Refer to "rated battery voltage"		
Rated output current	10A/each loop		
Overload protection	120% rated DC output -1min, 150% rated DC output -10s		
Short circuit protection	200% rated DC output, instant protection		
General Parameters			
Rectifier mode	Uncontrolled rectifier		
Display mode	LED		
Display information	Battery voltage, light control voltage, 1st loop output mode, 2nd loop output mode. Brake guidance.		
Lightning protection	YES		
Conversion efficiency	≥95%		
Static loss	<0.5W		
Environment temperature	-20℃~+40℃		
Humidity	5%~95%, No condensing		
Noise	≤65dB		
Cooling mode	Natural cooling		
Installation mode	Wall-mounted		
Cover protection class	IP53		

Product dimension (W*H*D)	123x150x62mm
Product net weight	0.8kg
Note: Part of parameters can be adjusted according to customer's specific demand.	