

## Parameters

### Wind Solar Hybrid Controller (Boost & Buck)

Model	Hybrid Charge Controller All Round 3000_48 Boost	
Rated wind power	3KW	
Rated solar power	900W	
External dump load device	NO	
Nominal system voltage	48V	
Battery over-discharge limit voltage(Low)	40.8V(adjustable)	
Battery over-discharge limit recovery voltage(Rlow)	46.5V(adjustable)	
Battery over-charge limit voltage(Full)	58.8V(adjustable)	
Battery over-charge limit recovery voltage(RFull)	52.8V(adjustable)	
Float voltage(Flot)	54.0V(adjustable)	
Wind dumpload rotate speed(Rota)	800R(adjustable)	
Wind pole logarithm(Pole)	4D(adjustable)	
Wind charging range	DC (20-100)V	
Wind start charging Rota(CutIn)	300R(adjustable)	
Wind dumpload voltage(Vmax)	100V(adjustable)	
Dump load control mode	Over rotate speed limiting, Over voltage limiting, Over Current limiting, PWM	
Wind charging mode	MPPT(Boost & Buck) & PWM	
Solar charging mode	PWM	
Display mode	LCD	
Display content	<b>Battery:</b> voltage;charging current; Percentage of battery power. <b>Wind:</b> voltage; charging current; rotate speed; output current; output power <b>Solar:</b> voltage; charging current. <b>System:</b> state; generated energy; error code	
Operating temperature & Relative humidity	- 20- + 55°C/ 35- 85%RH(Non-condensing)	
Quiescent power drain	-S.3W	
Protection type	<b>Batte ry:</b> over-discharge protection; over-charge protection; anti-reverse connection. <b>Wind:</b> Over rotate speed protection, over voltage protection, over current protection.	
Controller size	450mm*423mm*174.43mm	
Package size	510mm*250mm*545mm	
Net weight	15.5Kg	
Grass weight	17.0Kg	
Optional function	<input type="checkbox"/> RS232	
	<input type="checkbox"/> RS485	
	<input type="checkbox"/> USB	
	<input type="checkbox"/> Anemometer function	