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Cooling Fan Working Code:

Cooling fan of inverter is through detecting output power and heat sink's temperature to work. PSQ2000W standard colling fan is one-speed fan. **3-speed fan is optional**. The 3-speed fan working state is as below;

When start to turn on the inverter and output power under about **200W**, the cooling fan does not start running. It complies with saving energy sources requirement. Until, output power is up to about **200W**, the cooling fan will start to work at low speed, in order to drop the inner temperature. If the output power is up to about **700W**, the cooling fan will speed up, in order to dispel the more heat. If the power is more than about **1500W**, the fan will work at the fastest speed. Meanwhile, the inverter is detecting the temperature of heat sink, if the temperature is up to **40°C**, the colling fan will start to work at low speed at once, if the temperature is up to **50°C**, the fan will speed up, in order to dispel the more heat. If the temperature is more than **60°C**, the fan will work at the fastest speed. In other words, inverter is detecting the load and temperature at the same time, regardless of load or temperature, as long as there is any value reaches the set value, the cooling fan will operate according to the design.

If the ventilation opening is obstructed, the inverter will enter Over Temperature Protection mode (OTP). The cooling fan will continue working to drop the inner temperature. When the temperature comes down to normal situation, the inverter will turn on automatically.

1-2 Electrical Performance :

Specification	Model					
Item	YK- PSQ12200	YK- PSQ24200	YK- PSQ48200	YK- PSQ12200E	YK- PSQ24200E	YK- PSQ48200E
Continuous Output Power	2000W					
Maximum Output Power	2200W(3mins)					
Surge Rating	4000W					
Input Voltage	12V	24V	48V	12V	24V	48V
Input Voltage Range	10-16VDC	20-32VDC	42-62VDC	10-16VDC	20-32VDC	42-62VDC
Dc Input over voltage alarm	15.5VDC	31VDC	61VDC	15.5VDC	31VDC	61VDC
Dc Input over voltage shut-down	16.0VDC	32.0VDC	62.0VDC	16.0VDC	32.0VDC	62.0VDC
Dc Input under voltage alarm	10.5VDC	21.0VDC	43.0VDC	10.5VDC	21.0VDC	43.0VDC
Dc Input under voltage shut-down	10.0VDC	20.0VDC	42.0VDC	10.0VDC	20.0VDC	42.0VDC
Frequency	50/60Hz ± 0.05%(Switch Selectable)					
Peak Output Current	38A			19A		
Efficiency (full load)	80%	84%	87%	85%	90%	92%
No Load Current Draw	1.48A	0.55A	0.33A	1.52A	0.55A	0.38A
Output Waveform	R Load Pure Sine Wave <3% THD					
Output Voltage	100/110/115/120V(Switch Selectable)RMS±3%			200/220/230/240V(Switch Selectable)RMS±3%		
Protection	Overload, Short Circuit, Reverse Polarity (fuse), Input Undervoltage, Input Overvoltage, Over Temperature					
LED light	Power, OLP, OVP/UVP, OTP					
Safety	Comply with EN60950-1					
EMI Conduction&Rdiation	Comply with FCC Class Comply with EN55022 Class B					
EMS IMMUNITY	Comply with EN61000-3, -2, 3					
Remote Control	Optional					
RS232 interface	Optional					
3-speed cooling fan	Optional					
Operating Temperature Range	-20℃ to 50℃					
Storage Temperature Range	-30℃ to 70℃					
Dimensions	370(L) ×188.6(W) ×94.2(H) mm					
Cooling	Loading controlled cooling fan					
Weight	5kgs					