

1200W Air Cooler Controller

800W-1200W PMSM Motor Driver with Control Panel(Remote Controller is Optional), Build-in Full Protection for Industrial Air Cooler.

Product Highlights

- Input Voltage: 140-270Vac
- Rated Current: 7.0A
- Applicable Motor Power: Up to **1200W**
- Speed: Up to **1440RPM**
- Closed-Loop Starting without Position Sensor
- Non-Inductive FOC Motor Control Algorithm to Achieve **low motor noise**.
- **Energy Efficient:** Accurate frequency adjustment and real-time voltage compensation algorithms make the motor work efficiently.

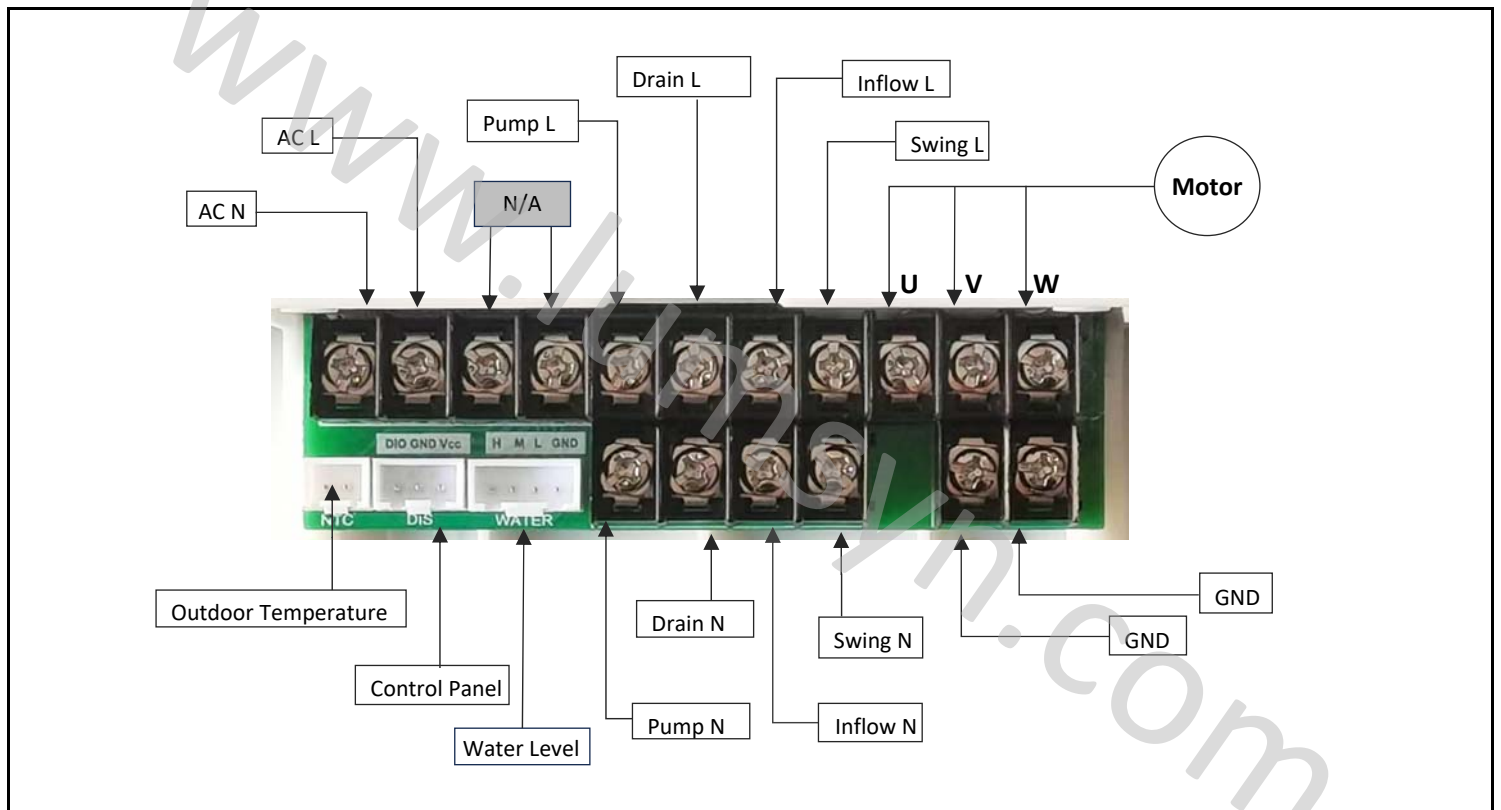


Specification

Name	Description	Condition	Value
Input	Input Voltage	Full Load	140-270VAC
	Input Power	Full Load	1200W
	Input Frequency	/	47-63Hz
	Working Current	Full Load	7.0A
Output	Output Current	Full Load	4.5A(rms)
	Output Power	Full Load	1200W
	Output Frequency	Full Load	120Hz
Control	Motor position sensor	/	N/A
	Control Method	/	FOC Sine-Wave Vector Control
	Start Method	/	Closed Loop Start
Motor	Type of Motor	/	Inner Rotor(Customizable)
	Number of Poles	/	5 Sets(10 Poles)
	Rated Speed	/	1440RPM
External	Speed Control	By Control Panel (Remote Controller is Available)	500-1440RPM
	On/Off	By Control Panel (Remote Controller is Available)	
Protection	Over Current Protection	Current Monitoring	5.5A
	Short-Circuit Protection	Current Monitoring	15A
	Locked Rotor Protection	/	Available
	Overload Protection	Current Limiting	5.5A
	Phase Loss Protection	RMS Phase Current	<0.5A
	3-Phase Current Imbalance Protection(output)	Phase Current Difference	>1A
	Start Failure Protection	Rotor Cannot be Synchronized within 10 seconds	Auto restart; If it happens 5 times in a row, it will automatically shut down & need to reconnect power to recover.
	Undervoltage Protection	Voltage Monitoring	<110VAC
	Overvoltage Protection	Voltage Monitoring	>280VAC

	Overheating Protection 1	90°C	Auto Slow Down
	Overheating Protection 2	100°C	Auto shutdown for 30 seconds
	Communication Fail Protection	5 Seconds no Signal	Auto close output
Power Consumption	Standby Power	/	2W
Efficiency	Control Board Only	/	>94%
Cooling	/	Air Cooling	/
Noise	/	/	≤50dbA
Environment	Operating Temperature		-20°C ~50°C
	Operating Humidity		0% ~90%
	Storage Temperature		-20°C ~85°C
	Storage Humidity		0% ~95%
Standard	/	RoHS	/
Dimension(LxWxH)	/	/	200x140x72mm

Terminal Blocks / Connection



Cautions

- It is strictly forbidden to immerse the product in any liquid or corrosive environment.
- It is strictly forbidden to be placed in an environment exceeding 70 °C for a long time, and away from fire and heat sources.
- It is strictly forbidden to assemble or operate this product in an environment with strong static electricity and magnetic.

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