

The Professional Thermal Solution Provider of

Philips®

Fortimo LED SLM (Spot lighting) Module



PHILIPS

Complementary
partner

SUNON®
www.sunon.com

Active cooled luminaire designs

6 Advantages

- Small form factor with lower-noise fan
- High efficiency, low power consumption
- Optimized thermal performance, light weight
- Super Silence Fan design, long life
- Dust-resistance System
- High reliability, up to 5 Yr warranty





Model No.	TA001-11002	TA003-10003	TA004-10003
Dimensions	φ 86 x 30.4 mm	φ 86 x 52.4 mm	φ 86 x 52.4 mm
Weight	114g	237g	233g
Thermal Resistance	0.85°C / Watt	0.70°C / Watt	0.52°C / Watt
Cooling Module Noise @ 1M	14.0dB(A)	15.1dB(A)	16.2dB(A)
Rated Voltage	12VDC	12VDC	12VDC
Power Consumption	0.28Watts	0.28Watts	0.34Watts
Fan Speed (with Heat Sink)	2200 RPM+/-10%	2200 RPM+/-10%	2200 RPM+/-10%
Heat Sink Material	AL6063	AL6063	AL6063

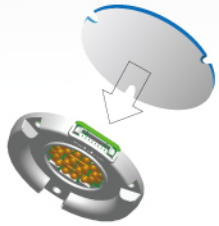
SLM 1100 lm (17W)	Tc=47°C @Ta=35°C	Tc=45°C @Ta=35°C	Tc=42°C @Ta=35°C
SLM 1500 lm (20W)	Tc=50°C @Ta=35°C	Tc=47°C @Ta=35°C	Tc=44°C @Ta=35°C
SLM 2000 lm (32W)	Tc=58°C @Ta=35°C	Tc=54°C @Ta=35°C	Tc=49°C @Ta=35°C
SLM 3000 lm (43W)	X	Tc=60°C @Ta=35°C	Tc=54°C @Ta=35°C
SLM 5000 lm (75W)	X	X	Tc=68°C @Ta=35°C
SLM Lexel TW (22W)	Tc=50°C @Ta=35°C	Tc=48°C @Ta=35°C	Tc=44°C @Ta=35°C
SLM Lexel RGB(25W)	Tc=52°C @Ta=35°C	Tc=49°C @Ta=35°C	Tc=45°C @Ta=35°C

1. Tc : Maximum Surface Temperature of LED Module, Ta : Ambient Temperature.
2. All specifications were tested in free air.
3. Products or Information are subject to change without notice. Please contact with Sunon Sales.



Standard function	Optional function
1 Fan Rated Voltage_12V	1 Fan Rated Voltage_5V
2 Auto Restart	2 PWM speed control
3 Reverse Polarity Protection	3 Protection IP 51
	4 Fan 3rd wire signal (F/R type)
	5 Temperature controller

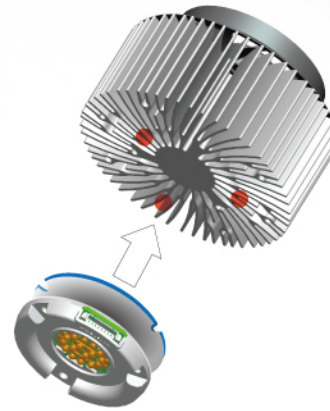
Easy Assembly in 4 Steps



1

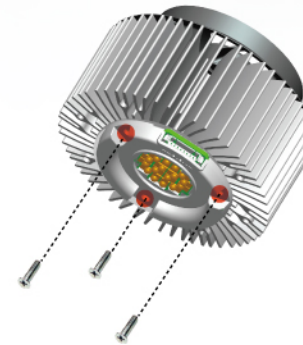
To attach tight the Thermal Interface Materials ※(TIM) bought by yourself to LED cooling substrate. To make sure there is no air bubbles between TIM and cooling substrate to avoid reducing the cooling efficiency.

※ Please contact us to know more about the TIM..



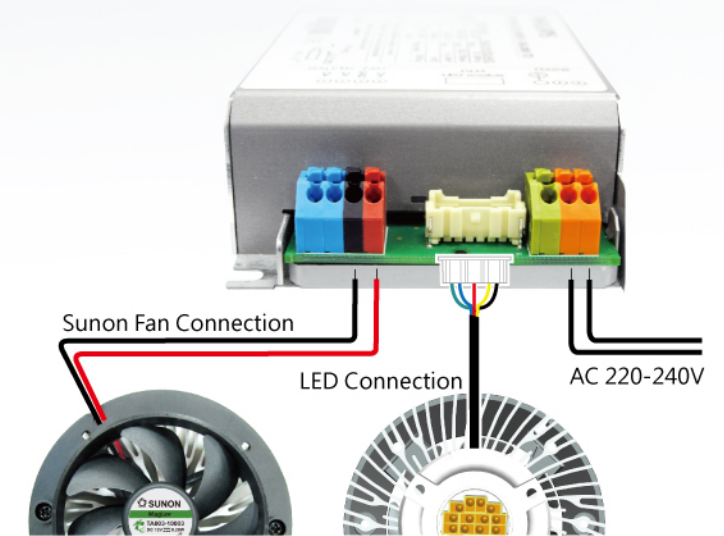
2

To make sure the three screw holes on LED chip are aligned to the three highlighted holes on the heat sink.



3

Then firmly tighten the three screws (Tapping Screw M3*10mm) in to the heat sink and make sure the LED chip and cooling module are firmly assembled.



4

To join the red & black lines which control the fan (connect the red line to 12V power and the black line is ground wire) and LED connection to complete the entire assembly.

Design guidelines for active cooling

- Prevent hot air inside the luminaire from flowing back.
- Avoid openings for inlet and outlet in the luminaire's housing close to the fan, which may help lower noise level.
- Prevent restrictions in the flow path to ensure smooth airflow from inlet to outlet.
- Our thermal solution has optimal flow path design to offer better cooling efficiency and takes lamp design into a sophisticated design field by going small, compact and light weight.

