

The Professional Thermal Solution Provider of

Philips Fortimo LED SLM (Spot lighting) Module



PHILIPS

Complementary
partner

SUNON[®]

www.sunon.com

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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



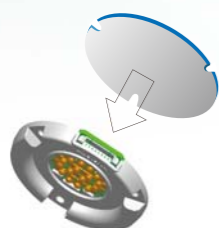


Model No.	TA001-11002	TA003-10003	TA004-10003	LA001-011A99DN	LA004-003A99DN
Dimensions	φ 86 x 30.4 mm	φ 86 x 52.4 mm	φ 86 x 52.4 mm	φ 86 x 30.5 mm	φ 86 x 52.5 mm
Weight	114g	237g	233g	112g	231g
Thermal Resistance	14.0dB(A)	15.1dB(A)	16.2dB(A)	13.8dB(A)	15.8dB(A)
Cooling Module Noise @ 1M	12VDC	12VDC	12VDC	12VDC	12VDC
Rated Voltage	0.28Watts	0.28Watts	0.34Watts	0.28Watts	0.35Watts
Power Consumption	2200 RPM	2200 RPM	2200 RPM	2200 RPM	2200 RPM
Fan Speed (with Heat Sink)	AL6063	AL6063	AL6063	AL6063	AL6063
Heat Sink Material	UL/CUR/TUV/CE	UL/CUR/TUV/CE	UL/CUR/TUV/CE	UL/CUR/TUV/CE	UL/CUR/TUV/CE
SLM 1100 lm (17W)	Tc=47 °C @Ta=35°C	Tc=45 °C @Ta=35°C	Tc=42 °C @Ta=35°C	Tc=47 °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	Tc=50 °C @Ta=35°C	Tc=44 °C @Ta=35°C
SLM 2000 lm (32W)	--	Tc=54 °C @Ta=35°C	Tc=49 °C @Ta=35°C	--	Tc=49 °C @Ta=35°C
SLM 3000 lm (43W)	--	--	Tc=54 °C @Ta=35°C	--	Tc=54 °C @Ta=35°C
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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

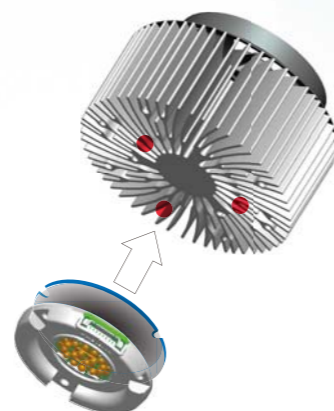
Assembly in 4 Steps



1

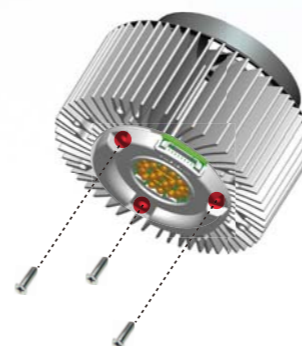
Affix the Thermal Interface Material (TIM) to the LED Module. Make sure there are no air bubbles between the TIM and LED Module which will reduce the cooling efficiency.

※ Please contact with Sunon Sales for recommendations of TIM.



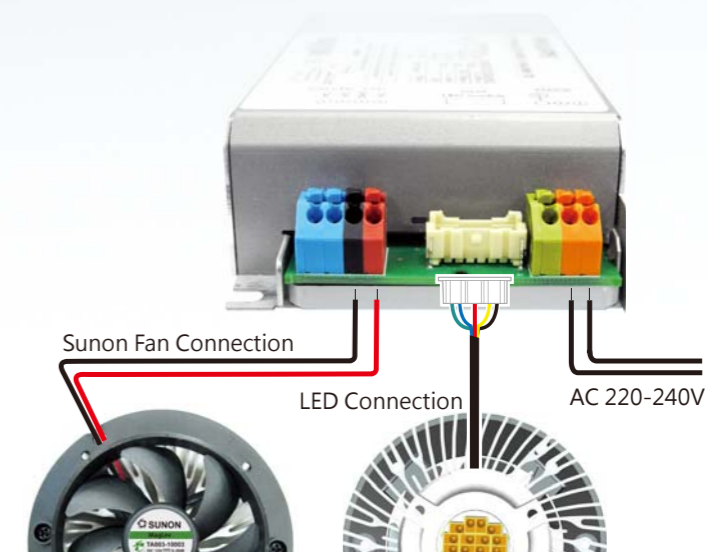
2

Make sure the mounting holes on the LED Module are aligned with the three highlighted holes on the heat sink.



3

Insert three M3 screws through the LED Module and into the heat sink. Tighten the screws to ensure that the LED Module and the heat sink are securely assembled.



4

Connect the fan red wire to the 12V connection and the fan black wire to the GND. Connect the LED Module to the LED Drive to complete the 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.

