

The Professional Thermal Solution Provider of

Philips

Fortimo LED SLM (Spot lighting) Module



PHILIPS

Complementary
partner

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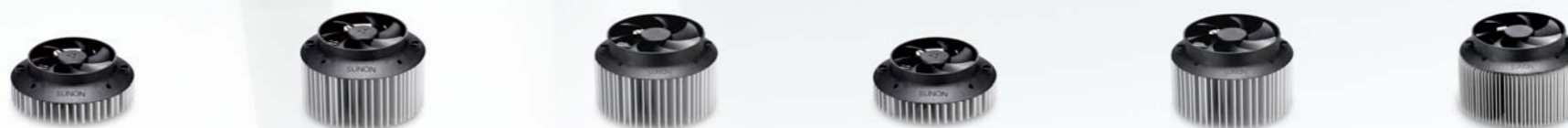
2012/05/04 (Philips_SLM-e03)

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-year warranty



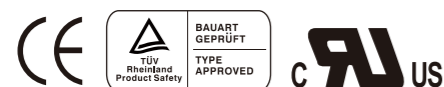


Model No.	TA001-11002	TA003-10003	TA004-10003	LA001-011A99DN	LA004-003A99DN	LA006-001A99DN
Module Dimension (mm)	φ 86 x 30.5	φ 86 x 52.5	φ 86 x 52.5	φ 86 x 30.5	φ 86 x 52.5	φ 90 x 52.5 mm
Weight (g)	114	237	233	112	231	302
Cooling Module Noise @ 1M , dB(A)	14.0	15.1	16.2	13.8	15.8	16
Rated Voltage (V)	12	12	12	12	12	12
Power Consumption (W)	0.28	0.28	0.34	0.28	0.35	0.34
Fan Speed (RPM)	2200	2200	2200	2200	2200	2200
Heat Sink Material	AL6063	AL6063	AL6063	AL6063	AL6063	AL6063
Fan Model No.	HA60151V3-E00U-A99	HA60151V3-E00U-A99	HA60151V3-E01U-A99	HA60151V3-E00U-A99	HA60151V3-E01U-A99	HA60151V3-E01U-A99
Safety	UL/CUR/TUV/CE	UL/CUR/TUV/CE	UL/CUR/TUV/CE	UL/CUR/TUV/CE	UL/CUR/TUV/CE	UL/CUR/TUV/CE
Multiple Holes ^{※1}	--	--	--	O	O	--
Thermal Resistance (°C/W) ^{※2}	0.85	0.70	0.52	0.86	0.53	0.48
Experiment LED Module	Philips Fortimo LED SLM 1100/830	Philips Fortimo LED SLM 2000/830	Philips Fortimo LED SLM 3000/830	Philips Fortimo LED SLM 1100/830	Philips Fortimo LED SLM 3000/830	Philips Fortimo LED SLM 5000

※1 : Multiple Holes for Philips Fortimo SLM, Philips Lixel LED SLM, Osram PrevaLED, Tridonic Stark & Talex, Bridgelux RS Array / LS Array, Citizen CL-L330 / 340, Vossloh-Schwabe WU-M-Series, Zhaga.

※2 : Thermal Resistance is for reference only. (For more information please see the product specification of LED brand.) Please test thermal resistance again by using on different applications.

1. All specifications were tested in free air.
2. 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

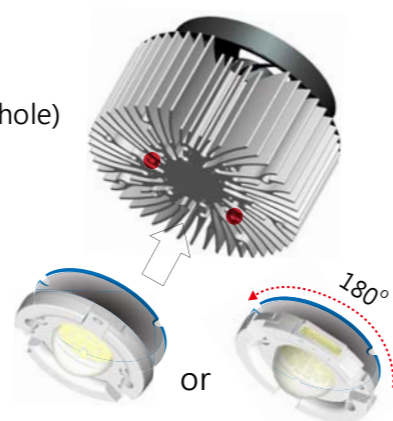


1 Affix the Thermal Interface Material (TIM) to the LED Module. Make sure there are no air bubbles between the TIM and LED Module which will reduce the cooling efficiency.

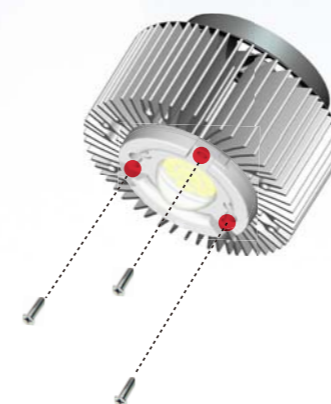
Assembly 1 (3 holes)
Gen 1 / Gen 2



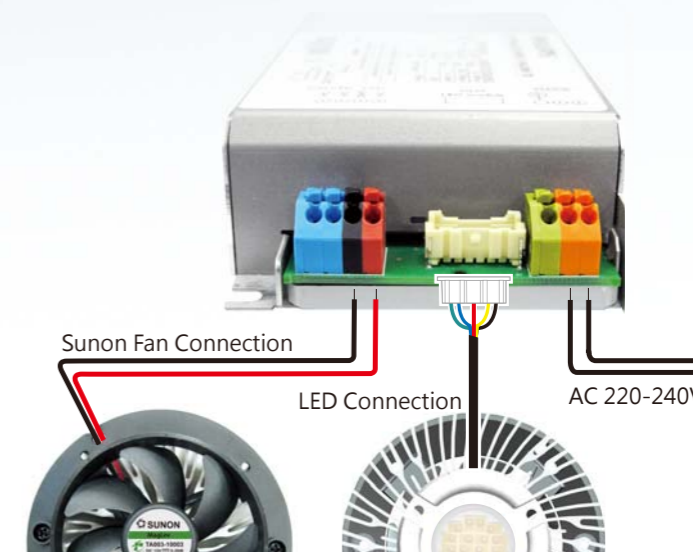
Assembly 2 (Zhaga hole)
Gen 2



2 Make sure the mounting holes on the LED Module are aligned with the three highlighted holes on the heat sink. (Gen2 model could be mounted on 2 ways.)



3 Insert correct amounts of 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.

