

## LED Spotlight Active Cooling Module

Optimal Sound Quality  
 Prolong LED lighting's overall service life  
 High Reliability



### ▶ Spotlight

Model No.	LA002-012A9BDN	LA005-001A99DN	LA005-002A99DN
Module Dimension (mm)	φ 52 x 20	φ 70 x 51.5	φ 70 x 51.5
Weight (g)	48	183	183
Cooling Module Noise @ 1M, dB(A)	16.8	11.6	11.6
Rated Voltage (V)	5	12	12
Power Consumption (W)	0.21	0.28	0.28
Fan Speed (RPM)	3800	2200	2200
Heat Sink Material	ADC12	AL6063	AL6063
Fan Model No.	--	HA60151V3-E04U-A99	HA60151V3-E04U-A99
Safety	UL/CUR/TUV/CE	UL/CUR/TUV/CE	UL/CUR/TUV/CE
Multiple Holes <sup>※1</sup>	--	--	--
Zhaga Holes	--	Book3	Book3
Thermal Resistance (°C/W) <sup>※2</sup>	1.09	0.72	0.72
Experiment LED Module	Xicato XSM 8027-1300 (22.1W)	Xicato XSM 3000lm (45W)	Xicato XSM 3000lm (45W)

### ▶ Spotlight

Model No.	LA001-015A99DN	LA001-011A99DN	TA001-11002	LA001-012A99DN	LA001-013A99DN
Module Dimension (mm)	φ 86 x 30.5	φ 86 x 30.5	φ 86 x 30.5	φ 86 x 35	φ 86 x 35
Weight (g)	112	112	114	175	175
Cooling Module Noise @ 1M, dB(A)	13.8	13.8	14.0	15.2	15.2
Rated Voltage (V)	5	12	12	5	12
Power Consumption (W)	0.28	0.28	0.28	0.26	0.28
Fan Speed (RPM)	2200	2200	2200	2200	2200
Heat Sink Material	AL6063	AL6063	AL6063	AL6063	AL6063
Fan Model No.	HA60150V3-E03U-A99	HA60151V3-E00U-A99	HA60151V3-E00U-A99	HA60150V3-E03U-A99	HA60151V3-E00U-A99
Safety	UL/CUR/TUV/CE	UL/CUR/TUV/CE	UL/CUR/TUV/CE	UL/CUR/TUV/CE	UL/CUR/TUV/CE
Multiple Holes <sup>※1</sup>	O	O	--	--	--
Zhaga Holes	Book 3	Book 3	Book 3	--	--
Thermal Resistance (°C/W) <sup>※2</sup>	0.86	0.86	0.85	0.56	0.56
Experiment LED Module	Osram PrevaLEP-2100-840-C (25W)	Philips Fortimo LED SLM 1100/830 (17W)	Philips Fortimo LED SLM 1100/830 (17W)	GE Infusion Module M1500 Series (23W)	GE Infusion Module M1500 Series (23W)

※1 : Multiple Holes for Philips Fortimo SLM, Philips Lexel 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.

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Model No.	LA003-004A99DN	LA003-005A99DN	TA003-10003
Module Dimension (mm)	φ 86 x 52	φ 86 x 52	φ 86 x 52.5
Weight (g)	275	275	237
Cooling Module Noise @ 1M, dB(A)	16.3	16.3	15.1
Rated Voltage (V)	5	12	12
Power Consumption (W)	0.26	0.28	0.28
Fan Speed (RPM)	2200	2200	2200
Heat Sink Material	AL6063	AL6063	AL6063
Fan Model No.	HA60150V3-E03U-A99	HA60151V3-E00U-A99	HA60151V3-E00U-A99
Safety	UL/CUR/TUV/CE	UL/CUR/TUV/CE	UL/CUR/TUV/CE
Multiple Holes <sup>※1</sup>	--	--	--
Zhaga Holes	--	--	Book 3
Thermal Resistance (°C/W) <sup>※2</sup>	0.26	0.26	0.70
Experiment LED Module	GE Infusion Module M3000 Series (46W)	GE Infusion Module M3000 Series (46W)	Philips Fortimo LED SLM 2000/830 (32W)

### ▶ Spotlight

			
Model No.	LA004-003A99DN	TA004-10003	LA004-001A99DN
Module Dimension (mm)	φ 86 x 52.5	φ 86 x 52.5	φ 86 x 52.5
Weight (g)	231	233	231
Cooling Module Noise @ 1M, dB(A)	15.8	16.2	15.8
Rated Voltage (V)	12	12	5
Power Consumption (W)	0.35	0.34	0.40
Fan Speed (RPM)	2200	2200	2200
Heat Sink Material	AL6063	AL6063	AL6063
Fan Model No.	HA60151V3-E01U-A99	HA60151V3-E01U-A99	HA60150V3-E02U-A99
Safety	UL/CUR/TUV/CE	UL/CUR/TUV/CE	UL/CUR/TUV/CE
Multiple Holes <sup>※1</sup>	○	--	--
Zhaga Holes	Book 3	--	--
Thermal Resistance (°C/W) <sup>※2</sup>	0.53	0.52	0.49
Experiment LED Module	Philips Fortimo LED SLM 3000/830 (43W)	Philips Fortimo LED SLM 3000/830 (43W)	Osram PrevaLEP-3000-840-C (39W)

※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.

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Model No.	LA006-001A99DN	LA006-002A99DN	LA006-003A99DN
Module Dimension (mm)	φ 90 x 52.5 mm	φ 90 x 52.5 mm	φ 90 x 52.5 mm
Weight (g)	302	302	302
Cooling Module Noise @ 1M, dB(A)	16	16.0	16.0
Rated Voltage (V)	12	12	5
Power Consumption (W)	0.34	0.39	0.35
Fan Speed (RPM)	2200	2200	2200
Heat Sink Material	AL6063	AL6063	AL6063
Fan Model No.	HA60151V3-E01U-A99	HA60151V3-E01U-A99	HA60151V3-E01U-A99
Safety	UL/CUR/TUV/CE	UL/CUR/TUV/CE	UL/CUR/TUV/CE
Multiple Holes <sup>*1</sup>	--	--	--
Zhaga Holes	Book 3	--	Book 3
Thermal Resistance (°C/W) <sup>*2</sup>	0.48	1.04	0.48
Experiment LED Module	Philips Fortimo LED SLM 5000 (75W)	Citizen CLL030 (65W)	--

► **Spotlight**

	
Model No.	LM310-001A99DN
Module Dimension (mm)	121 x 92.3 x 66
Weight (g)	352
Cooling Module Noise @ 1M, dB(A)	17.8
Rated Voltage (V)	12
Power Consumption (W)	0.34
Fan Speed (RPM)	2200
Heat Sink Material	ADC10 (Base)+AL1050 (Fin)+C1100 (Heat Pipe & Base)
Fan Model No.	HA60151V3-E01U-A99
Safety	UL/CUR/TUV/CE
Multiple Holes <sup>*1</sup>	--
Zhaga Holes	Book 3
Thermal Resistance (°C/W) <sup>*2</sup>	0.33
Experiment LED Module	Citizen CLL050 (180W)

\*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.