

The Professional LED Cooling Solution Provider

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| Cooling Module: MR16 . A19 |

► MR16



Model No.	LA001-002A99DY
Module Dimension	φ 50 x15.1 mm
Weight	19.3 g
Cooling Module Noise @ 1M	16.5 dB(A)
Rated Voltage	12 V
Power Consumption	0.30 W
Fan Speed	4600 RPM
Heat Sink Material	AL1070
Safety	UL / CUR / TUV / CE
Thermal Resistance	4.5 °C/W
Fixing Holes Direction	--
LED Engine Reference	--

► A19



Model No.	TA001-09012	LA002-012A9BDN	LA002-001A99DY
Module Dimension	φ 59 x 20.53 mm	φ52 x 20 mm	φ 60 x 19 mm
Weight	48.0 g	48 g	39.5 g
Cooling Module Noise @ 1M	16.8 dB(A)	16.8 dB(A)	15.7 dB(A)
Rated Voltage	5 V	5VDC	12 V
Power Consumption	0.21 W	0.21 Watts	0.32 W
Fan Speed	3800 RPM	3800 RPM	4100 RPM
Heat Sink Material	ADC12	ADC12	AL1070
Safety	UL / CUR / TUV / CE	UL/CUR/TUV/CE	UL / CUR / TUV / CE
Thermal Resistance	1.2 °C/W	1.09 °C/W	2.8 °C/W
Fixing Holes Direction	--	--	--
LED Engine Reference	--	Xicato XSM	--

1. 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.
2. All specifications were tested in free air.
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| Active Cooling Module: Spotlight . Downlight |

► Spotlight. Downlight



Model No.	LA001-015A99DN	LA001-011A99DN	TA001-11002	LA001-012A99DN	LA001-013A99DN	LA002-003A99DN
Module Dimension	φ 86 x 30.5 mm	φ 86 x 30.5 mm	φ 86 x 30.5 mm	φ 86 x 35 mm	φ 86 x 35 mm	85 x 85 x 35.5 mm
Weight	112g	112g	114g	175g	175g	153 g
Cooling Module Noise @ 1M	13.8dB(A)	13.8dB(A)	14.0dB(A)	15.2dB(A)	15.2dB(A)	13.9dB(A)
Rated Voltage	5VDC	12VDC	12VDC	5VDC	12VDC	12VDC
Power Consumption	0.28Watts	0.28Watts	0.28Watts	0.26 Watts	0.28 Watts	0.28Watts
Fan Speed	2200 RPM	2200 RPM	2200 RPM	2200 RPM	2200 RPM	2200 RPM
Heat Sink Material	AL6063	AL6063	AL6063	AL6063	AL6063	AL6063
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
Thermal Resistance	0.86 °C/W	0.86 °C/W	0.85 °C/W	0.56 °C/W	0.56 °C/W	0.55 °C/W
Fixing Holes Direction	Multiple Holes	Multiple Holes	--	--	--	--
LED Engine Reference	※	※	Philips SLM	GE Infusion	GE Infusion	Philips DLM

※ : 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.

► Spotlight



Model No.	LA003-004A99DN	LA003-005A99DN	TA003-10003	LA004-003A99DN	TA004-10003	LA004-001A99DN
Module Dimension	φ 86 x 52 mm	φ 86 x 52 mm	φ 86 x 52.5 mm	φ 86 x 52.5 mm	φ 86 x 52.5 mm	φ86 x 52.5 mm
Weight	275g	275g	237g	231g	233g	231g
Cooling Module Noise @ 1M	16.3 dB(A)	16.3 dB(A)	15.1dB(A)	15.8dB(A)	16.2dB(A)	15.8dB(A)
Rated Voltage	5VDC	12VDC	12VDC	12VDC	12VDC	5VDC
Power Consumption	0.26Watts	0.28Watts	0.28Watts	0.35Watts	0.34Watts	0.40Watts
Fan Speed	2200 RPM	2200 RPM	2200 RPM	2200 RPM	2200 RPM	2200 RPM
Heat Sink Material	AL6063	AL6063	AL6063	AL6063	AL6063	AL6063
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
Thermal Resistance	0.26 °C/W	0.26 °C/W	0.70 °C/W	0.53 °C/W	0.52 °C/W	0.49 °C/W
Fixing Holes Direction	Multiple Holes					
LED Engine Reference	GE Infusion	GE Infusion	Philips SLM	※	Philips SLM	Osram PrevaLED

※ : 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.

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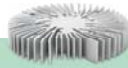
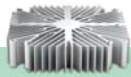
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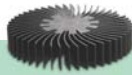
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| Passive Cooling Module |



Model No.	RA000-002999DN	RA000-003999DN	RA000-001999DN	RA001-004999DN
Module Dimension	85x85x20 mm	φ86 x 15 mm	φ86 x 25 mm	φ86 x 37 mm
Weight	122 g	89 g	142 g	216 g
Heat Sink Material	AL6063	AL6063	AL6063	AL6063
Thermal Resistance	2.78 °C/W	3.68 °C/W	3.78 °C/W	2.75 °C/W
Fixing Holes Direction	--	Multiple Holes	--	Multiple Holes
LED Engine Reference	Philips DLM	※	Philips LEDisk	※

※ : 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.



Model No.	RA001-002999DN	RA001-001999DN	RA001-003999DN	RA002-001999DN	RA002-002999DN
Module Dimension	φ160 x 30 mm	φ170 x 10 mm	φ170 x 10 mm	φ170 x 30 mm	φ170 x 30 mm
Weight	530g	185 g	190 g	570 g	570 g
Heat Sink Material	AL6063	AL6063	AL6063	AL6063	AL6063
Thermal Resistance	0.9 °C/W	1.87 °C/W	1.29 °C/W	1.10 °C/W	1.00 °C/W
Fixing Holes Direction	--	--	--	--	--
LED Engine Reference	GE Infusion	Philips Twistable	Philips DLM	Philips Twistable	Philips DLM

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| Active Cooling Fan |



Model No.	EF30080S2-E00U-A99	HA30101V3-E00U-A99	HA40101V3-E00U-A99
Fan Dimension	φ 30 x 8 mm	φ 39.8 x 10.4 mm	φ 48.9 x 10.6 mm
Weight	4.3 g	7.3 g	11.8 g
Rated Voltage	3.3/5 V	12 V	12 V
Power Consumption	0.20 / 0.40 W	0.30 W	0.32 W
Rated Speed	4300 / 7000 RPM	4400 RPM	3900 RPM
Air Flow	1.8 / 3.0 CFM	1.9 CFM	4.5 CFM
Static Pressure	0.03 / 0.058 Inch-H ₂ O	0.04 Inch-H ₂ O	0.05 Inch-H ₂ O
Acoustic Noise @1M	3.1 / 17.0 dB(A)	10.5 dB(A)	13.1 dB(A)
Safety	UL / CUR / TUV / CE	UL / CUR / TUV / CE	UL / CUR / TUV / CE



Model No.	HA60150V3-E03U-A99	HA60151V3-E00U-A99	HA60150V3-E02U-A99	HA60151V3-E01U-A99
Fan Dimension	φ 84.9 x 15.4 mm	φ 84.9 x 15.4 mm	φ 84.9 x 15.4 mm	φ 84.9 x 15.4 mm
Weight	29.1 g	29.1 g	27.3 g	27.3 g
Rated Voltage	5 V	12 V	5 V	12 V
Power Consumption	0.26 W	0.28 W	0.40 W	0.34 W
Rated Speed	2300 RPM	2300 RPM	2300 RPM	2300 RPM
Air Flow	9.7 CFM	9.7 CFM	13.2 CFM	13.2 CFM
Static Pressure	0.03 Inch-H ₂ O	0.03 Inch-H ₂ O	0.03 Inch-H ₂ O	0.03 Inch-H ₂ O
Acoustic Noise @1M	15.4 dB(A)	15.4 dB(A)	16.1 dB(A)	16.1 dB(A)
Safety	UL / CUR / TUV / CE	UL / CUR / TUV / CE	UL / CUR / TUV / CE	UL / CUR / TUV / CE

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