



### ES Rectangle . RS

10.4~49.4W

LED Module maximum operating temperature(Tc) <105°C

BXRA-xxx0800/0950/1100 (10.4W)  
BXRA-xxx1200/1350/1600 (14.8W)  
BXRA-xxx2000/1350/2600 (25.9W)  
BXRA-xxx3500/4000/4500-F-00 (31.8W)  
BXRA-xxx4000/4500/5300-H-00 (49.4W)



### CL-L340

47.3W

LED Module maximum operating temperature(Tc) <100°C

CL-L340-MC41N1-C1 (47.3W)  
CL-L340-MC41W1-C (47.3W)  
CL-L340-MC41WW1-C (47.3W)  
CL-L340-MC41L1-C (47.3W)  
CL-L340-MC41L2-C (47.3W)  
CL-L340-C41N-C (47.3W)



### PrevaLED

11.5~51.6W

LED Module maximum operating temperature(Tc) <85°C

PL-CORE-Z3-1000 (11.5W)  
PL-CORE-Z3-2000 (21.4W)  
PL-CORE-Z3-3000 (32.5W)  
PL-CORE-Z3-5000 (51.6W)



### Fortimo SLM

23~45W

LED Module maximum operating temperature(Tc) <75°C

2000lm G3 (23W)  
3000lm G3 (33W)  
4000lm G3 (45W)  
4500lm G3 (45W)



### TALEXX

21.5~41.0W

LED Module maximum operating temperature(Tc) <90°C

STARK-SLE-G3-19-2000-SEL (21.5 W)  
STARK-SLE-G3-19-3000-SEL (32.5 W)  
STARK-SLE-G3-23-3000-SEL (30.0 W)  
STARK-SLE-G3-19-2000-SEL (40.9 W)  
STARK-SLE-G3-23-4000-SEL (41.0 W)



### LUGA Shop

28.8~54.4W

LED Module maximum operating temperature(Tc) <85°C

WU-M-461 (28.8W)  
WU-M-462 (42.0W)  
WU-M-464 (54.4W)

Size : Ø86 x 30.4mm	Size : Ø86 x 45.4mm	Size : Ø86 x 52.4mm
LA001-018A81DY (aluminum colour 5V) LA001-018B81DY (black 5V) LA001-019A81DY (aluminum colour 12V) LA001-019B81DY (black 12V)	LA004-024A83DY (aluminum colour 5V) LA004-024B83DY (black 5V) LA004-025A83DY (aluminum colour 12V) LA004-025B83DY (black 12V)	LA006-006A83DY (aluminum colour 5V) LA006-006B83DY (black 5V) LA006-007A83DY(aluminum colour 12V) LA006-007B83DY(black 12V)
Weight (g) 112	Weight (g) 194	Weight (g) 234
Fan Speed (RPM) 2200	Fan Speed (RPM) 2200	Fan Speed (RPM) 2200
Noise @ 1M , (dB(A)) 17.0	Noise @ 1M , (dB(A)) 17.0	Noise @ 1M , (dB(A)) 17.0
Zhaga Zhaga hole : Book3	Zhaga Zhaga hole : Book3	Zhaga Zhaga hole : Book3



### ES Rectangle RS

85.4W

LED Module maximum operating temperature (Tc) <105°C

BXRA-XXX7000/7500/9000-J-00 (85.4W)

Size : 121 x 92.3 x 66.0 mm

LM310-003A99DN

Weight (g) 352  
Fan Speed (RPM) 2200  
Noise @ 1M , (dB(A)) 17.8



### COB

10.9~42.9W

LED Module maximum operating temperature (Tc) <100°C

CLL032-1205A5 (10.9W) CLL032-1208A5 (17.4W)  
CLL032-1205A5 (26.8W) CLL032-1208A5 (42.9W)  
CLL032-1206A5 (13.0W) CLL032-1212A5 (26.1W)  
CLL032-1206A5 (32.2W) CLL042-1218A5 (39.1W)

Size : Ø86 x 40.4mm

LA003-014A82DN (aluminum colour 12V)  
LA003-014B82DN (black 12V)

Weight (g) 163  
Fan Speed (RPM) 2200  
Noise @ 1M , (dB(A)) 16.5



### COB

89.3~177.9W

LED Module maximum operating temperature (Tc) <100°C

CLL044-1212 (89.3W)  
CLL044-1812 (134W)  
CLL044-1818 (86.7W)  
CLL044-1818 (128.1W)  
CLL054-1825 (120.4W)  
CLL054-1825 (177.9W)

Size : 121 x 92.3 x 66.0 mm

LM310-001A99DN

Weight (g) 352  
Fan Speed (RPM) 2200  
Noise @ 1M , (dB(A)) 17.8



### Partner Infusion

GE Lighting 13.5~40W

LED Module maximum operating temperature (Tp) <65°C

Gen3 M1000 Series (13.5W)  
Gen3 M1500 Series (20W)  
Gen3 M2000 Series (27W)  
Gen3 M3000 Series (40W)

Size : Ø86x40.4mm

LA003-013A82DY (Aluminum colour 5V)  
LA003-013B82DY (Black 5V)  
LA003-012A82DY (Aluminum colour 12V)  
LA003-012B82DY (Black12V)

Weight (g) 163  
Fan Speed (RPM) 2200  
Noise @ 1M , (dB(A)) 16.5



Size : Ø86x57.4mm

LA004-017A83DY (Aluminum colour 12V)  
LA004-017B83DY (Black 12V)

Weight (g) 268  
Fan Speed (RPM) 2200  
Noise @ 1M , (dB(A)) 15.9



### PHILIPS Fortimo SLM

23~33W

LED Module maximum operating temperature (Tc) <75°C

2000lm Gen3 (23W)  
3000lm Gen3 (33W)

Size : Ø99 x 110mm

SM203-13002

Weight (g) 211  
AL1050  
Heat Sink Material ADC10  
C1100

\*1 TDP (W) 23.8

\*2 Thermal Resistance (°C/W) 1.38

ΔT (°C) 32.9

Zhaga Zhaga hole : Book3



\*1 TDP (Thermal Design Power) is for reference only. Actual thermal performance may vary by different applications. Please test it again by using on different applications.

\*2 Thermal resistance is measured from the bottom middle of heat sink in free air without airflow obstructions, with PHILIPS(Fortimo LED SLM 3000 33W/930 L19 G3) LED chip.

## ■ LED Lighting Active Cooling Module & Cooling Fan

### Application : MR16



Specifications		
Model No.	EF30080S2-E00U-A99	HA30101V3-E00U-A99
Module Dimension (mm)	φ 30 x 8	φ 39.8 x 10.4
Weight (g)	4.3	7.3
Rated Voltage (V)	3.3/5	12
Power Consumption (W)	0.20 / 0.40	0.30
Fan Speed (RPM)	4300 / 7000	4400
Air Flow (CFM)	1.8 / 3.0	1.9
Static Pressure (Inch-H <sub>2</sub> O)	0.03 / 0.08	0.04
Noise @ 1M (dB(A))	3.1 / 17.0	10.5
Safety	UL / CUR / TUV / CE	UL / CUR / TUV / CE

### Application : A19



Specifications	
Model No.	HA40101V3-E00U-A99
Module Dimension (mm)	φ 48.9 x 10.6
Weight (g)	11.8
Rated Voltage (V)	12
Power Consumption (W)	0.32
Fan Speed (RPM)	3900
Air Flow (CFM)	4.5
Static Pressure (Inch-H <sub>2</sub> O)	0.05
Noise @ 1M (dB(A))	13.1
Safety	UL / CUR / TUV / CE

## ■ Cooling Fan

### Application : Spotlight / Downlight



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

\* model with PWM control function



Specifications				
Model No.	HA60150V3-E00U-H99 *	HA60151V3-E05U-H99 *	HA60200V3-E00U-A99	HA60201V3-E00U-A99
Fan Dimension (mm)	φ 84.9 x 15.4	φ 84.9 x 15.4	φ 84.9 x 20.4	φ 84.9 x 20.4
Weight (g)	28.8	28.8	30.5	30.5
Rated Voltage (V)	5	12	5	12
Power Consumption (W)	0.33	0.42	0.31	0.34
Rated Speed (RPM)	2300	2300	2300	2300
Air Flow (CFM)	13.2	13.2	13	13
Static Pressure (Inch-H <sub>2</sub> O)	0.03	0.03	0.03	0.03
Noise @1M (dB(A))	16.1	16.1	17.5	17.5
Safety	UL / CUR / TUV / CE	UL / CUR / TUV / CE	UL / CUR / TUV / CE	UL / CUR / TUV / CE

## ■ LED Lighting Passive Cooling Module



Specifications		
Model No.	SM203-13002	
Module Dimension (mm)	φ 99 x 110	
Weight (g)	211	
Heat Sink Material	AL1050 + ADC10 + C1100	
*1 TDP (W)	23.8	
*2 Thermal Resistance (°C/W)	1.38	
ΔT (°C)	32.9	

\*1 : TDP (Thermal Design Power) is for reference only. Actual thermal performance may vary by different applications. Please test it again by using on different applications.

\*2 : Thermal resistance is measured from the bottom middle of heat sink in free air without airflow obstructions, with PHILIPS(Fortimo LED SLM 3000 33W/930 L19 G3) heat source.

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