



MingfaTech Manufacturing Limited

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LED THERMAL SOLUTION

Leading Provider



2018

MingfaTech Manufacturing Limited

Overview

With professional know-how focused on LED cooling, MingfaTech brings high value to all its customers' esteemed brands. MingfaTech believes that any good LED thermal solution can make solid state lighting work more efficiently.

Therefore, as a LED thermal solution leading provider, MingfaTech is not only working on high quality, reasonable price and satisfactory lead time for clients, but also providing optimized designs derived from the early concepts. In other words, MingfaTech cares more about the complete value it can offer to clients by its full concentration on LED coolers more than the product itself.

Capabilities

MingfaTech is now holding with its own professional mechanical manufacturers in LED market but different production processes as aluminum extrusion, cold forging, die casting, deep drawing, sheet metal stamping, CNC cutting, laser cutting, milling, turning, welding, anodizing, power coating, silk screening, assembly, etc.

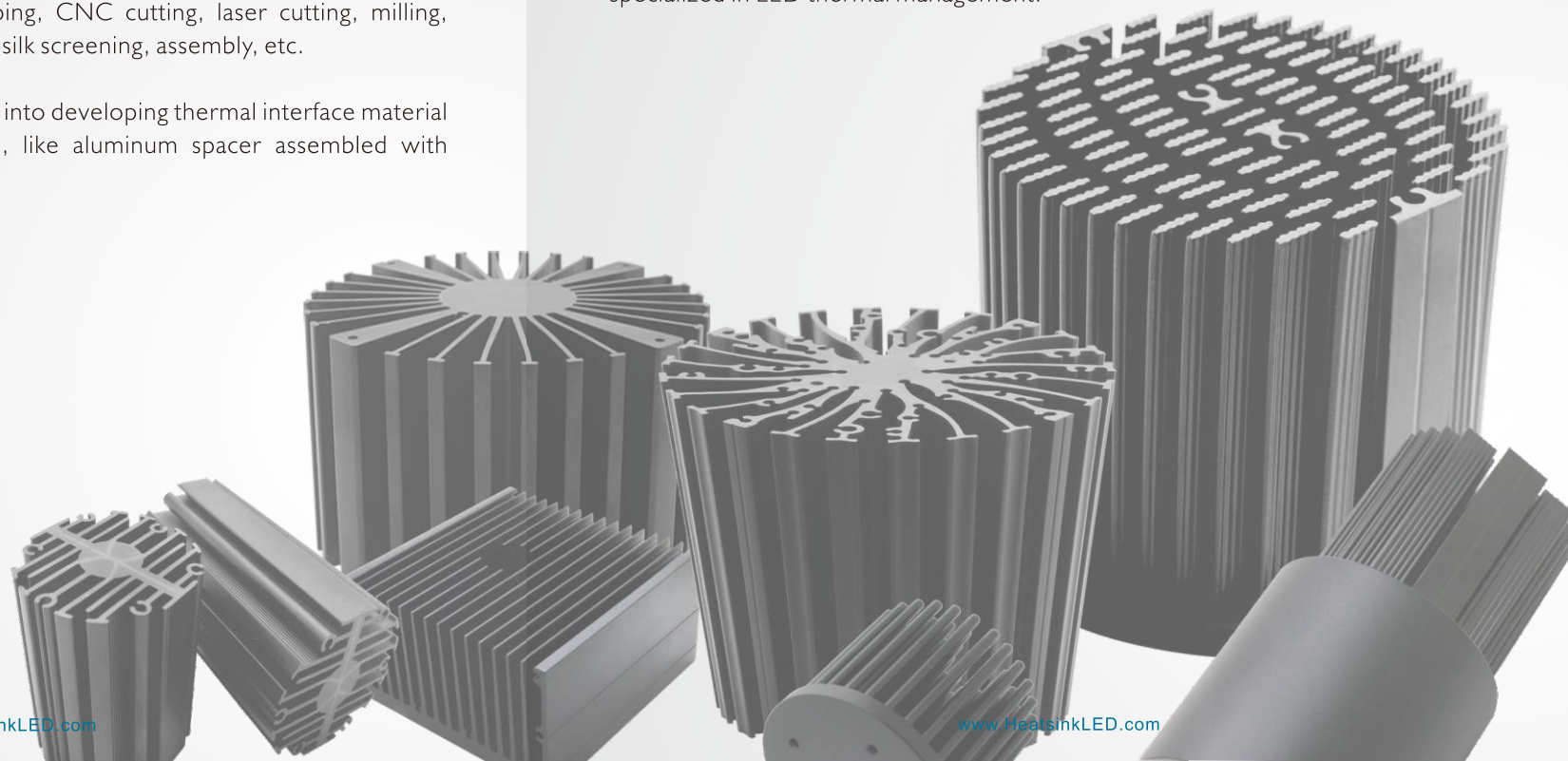
At the end of 2014, MingfaTech has stepped into developing thermal interface material between LED coolers and LED modules, like aluminum spacer assembled with thermal pad.

Established a strategic partnership with **Xicato, Bridgelux, LumiLEDs, Luminus, Seoul Semiconductor, LG Innotek, international light source brands**. All MingfaTech coolers compatible with more than **20 COB brands**.

Markets

Currently, MingfaTech has gained very good reputation from hundreds of valued customers in America, Europe, Middle East, Asia, Australia and rest of the world, who are mainly LED light manufacturers, LED OEM suppliers, LED design companies, LED consultant firms, LED distributors, and so on.

With more than seven years experiences in LED coolers manufacturing, as a trustworthy turnkey solution partner for all clients in LED industry, so the company is specialized in LED thermal management.



Mingfa Tech LED COOLER OVERVIEW

| Product series | Item No. | Style | Diameter (mm) | Height (mm) | Net Weight (g/pcs) | Thermal Resistance(°C/W) | Thermal Wattage (W) | Cooling Performance(lm) |
|--|--|---------------------|---------------|---------------------|--------------------|--------------------------|---------------------|-------------------------|
|  | eLED-46 | Extrusion AL6063-T5 | Φ46 | 20 | 41.0 | 6.25 | 8.0 | 300-1200 |
| | | | | 50 | 100.9 | 5.00 | 10.0 | 500-1400 |
| | | | | 80 | 161.5 | 3.80 | 13.0 | 500-1600 |
| | eLED-70 | | Φ70 | 20 | 83.0 | 3.00 | 16.5 | 500-2100 |
| | | | | 50 | 206.0 | 2.18 | 22.9 | 800-2900 |
| | | | | 80 | 329.0 | 1.77 | 28.2 | 1200-3600 |
| | eLED-95 | | Φ95 | 20 | 141.5 | 1.72 | 29.1 | 1500-3800 |
| | | | | 50 | 353.0 | 1.25 | 40.5 | 1800-5200 |
| | | | | 80 | 564.0 | 1.10 | 49.2 | 2000-6300 |
|  | xLED-45 | Forging AL1070 | Φ45 | 30 | 45.0 | 7.14 | 7.0 | 300-1200 |
| | | | | 50 | 63.5 | 5.55 | 9.0 | 400-1500 |
| | | | | 68 | 90.0 | 4.76 | 10.5 | 500-1600 |
| | xLED-60 | | Φ60 | 30 | 80.0 | 5.00 | 10.0 | 500-1600 |
| | | | | 50 | 112.0 | 3.85 | 13.0 | 900-2200 |
| | | | | 30 | 106.0 | 3.85 | 13.0 | 900-2200 |
| | xLED-70 | | Φ70 | 50 | 150.0 | 3.13 | 16.0 | 1000-2600 |
| | | | | 30 | 140.0 | 3.13 | 16.0 | 1000-2600 |
| | xLED-80 | | Φ80 | 50 | 197.0 | 2.38 | 21.0 | 1100-3400 |
| | | | | 30 | 492.0 | 1.51 | 33.0 | 1800-5000 |
| | | | | 50 | 625.0 | 1.04 | 48.0 | 2800-7500 |
| | xLED-130 | | Φ130 | 80 | 825.0 | 0.83 | 60.0 | 3500-9200 |
| | | | | 100 | 958.0 | 0.77 | 65.0 | 4000-10000 |
| | | | | 30 | 830.0 | 0.91 | 55.0 | 3500-8500 |
| | xLED-165 | | Φ165 | 60 | 1200.0 | 0.55 | 90.0 | 4400-11000 |
| | | | | 100 | 1700.0 | 0.42 | 120.0 | 6000-15000 |
| | | | | 30 | 1530.0 | 0.63 | 80.0 | 5000-12000 |
| | xLED-225 | | Φ225 | 60 | 2220.0 | 0.34 | 150.0 | 9000-23000 |
| | | | | 100 | 3150.0 | 0.26 | 200.0 | 10000-30000 |
| | | | | 30 | 336.0 | 1.50 | 34.0 | 1500-4500 |
| |  | | tLED-9290 | Extrusion AL6063-T5 | L92xW90 | 50 | 486.0 | 1.06 |
| tLED-19070 | | L190xW70 | 30 | | 553.0 | 0.95 | 53.0 | 2800-7000 |
| | | L190xW70 | 50 | | 770.0 | 0.70 | 71.0 | 3500-9200 |
| | | | 30 | | 46.0 | 6.25 | 8.0 | 400-1300 |
|  | GooLED-48 | Forging AL1070 | Φ48 | 50 | 63.0 | 5.00 | 10.0 | 500-1600 |
| | | | | 68 | 91.0 | 4.35 | 11.5 | 600-1800 |
| | | | | 80 | 101.0 | 3.85 | 13.0 | 700-2000 |
| | | | | 30 | 79.0 | 5.00 | 10.0 | 500-1600 |
| | GooLED-58 | | Φ58 | 50 | 114.0 | 3.85 | 13.0 | 800-2100 |
| | | | | 80 | 182.0 | 3.34 | 15.0 | 900-2300 |
| | | | | 30 | 107.0 | 4.00 | 12.5 | 800-2100 |
| | GooLED-68 | | Φ68 | 50 | 153.0 | 3.23 | 15.5 | 900-2600 |
| | | | | 60 | 176.0 | 2.94 | 17.0 | 1000-2800 |
| | | | | 80 | 245.0 | 2.70 | 18.5 | 1100-3000 |
| | GooLED-78 | | Φ78 | 30 | 138.0 | 3.03 | 16.3 | 1000-2700 |
| | | | | 50 | 197.0 | 2.33 | 21.5 | 1200-3500 |
| | | | | 80 | 316.0 | 2.08 | 24.0 | 1300-3700 |
| | GooLED-110 | | Φ110 | 50 | 463.0 | 1.47 | 34.0 | 2000-5500 |
| | | | | 80 | 617.0 | 1.14 | 44.0 | 2500-7000 |
| | GooLED-190 | | Φ190 | 37 | 600.0 | 0.83 | 60.0 | 3500-9000 |

Mingfa Tech LED COOLER OVERVIEW

| Product series | Item No. | Style | Diameter (mm) | Height (mm) | Net Weight (g/pcs) | Thermal Resistance(°C/W) | Thermal Wattage (W) | Cooling Performance(lm) | |
|---|---|-------------------------------------|---------------|-------------|---------------------|--------------------------|---------------------|-------------------------|-------------|
|  | BuLED-30E | Forging AL1070 +Extrusion AL6063-T5 | Φ50 | 30 | 106.0 | 4.20 | 12.0 | 500-1600 | |
| | BuLED-50E | | | 50 | 155.0 | 3.70 | 15.0 | 500-1900 | |
| | BuLED-30F | | | 30 | 75.0 | 4.20 | 12.0 | 500-1600 | |
| | BuLED-50F | | | 50 | 93.0 | 3.70 | 15.0 | 500-1900 | |
| | BuLED-68F | | | 68 | 122.0 | 3.70 | 13~16 | 500-1700 | |
| | BuLED-30Fx | | | 30 | 76.0 | 4.20 | 9~12 | 500-1400 | |
| | BuLED-50Fx | | | 50 | 95.0 | 3.70 | 12~15 | 500-1500 | |
| | BuLED-68Fx | | | 68 | 125.0 | 3.70 | 13~16 | 500-1700 | |
| |  | | | EtraLED-48 | Extrusion AL6063-T5 | Φ48 | 20 | 53.0 | 6.25 |
| 50 | | 134.0 | 4.20 | | | | 12.0 | 500-1600 | |
| 80 | | 213.0 | 3.60 | | | | 14.0 | 800-1800 | |
| EtraLED-70 | | Φ70 | 20 | 77.0 | | 3.57 | 14.0 | 800-1800 | |
| | | | 50 | 192.0 | | 2.20 | 23.0 | 1200-3100 | |
| | | | 80 | 308.0 | | 1.80 | 28.0 | 1500-3700 | |
| EtraLED-85 | | Φ85 | 20 | 115.0 | | 2.00 | 25.0 | 1200-3300 | |
| | | | 50 | 286.0 | | 1.50 | 34.0 | 2000-4200 | |
| | | | 80 | 458.0 | | 1.30 | 38.0 | 1800-5000 | |
| EtraLED-96 | | Φ96 | 20 | 144.0 | | 1.80 | 28.0 | 1500-3700 | |
| | | | 50 | 360.0 | | 1.20 | 37.5 | 1800-5000 | |
| | | | 80 | 575.0 | | 0.92 | 49.0 | 2500-6200 | |
| EtraLED-110 | | Φ110 | 20 | 165.0 | | 1.50 | 33.0 | 2000-4000 | |
| | | | 50 | 414.0 | | 1.10 | 48.0 | 2500-6000 | |
| | | | 80 | 662.0 | | 0.90 | 57.0 | 3000-7200 | |
| EtraLED-130 | Φ130 | 20 | 274.0 | 1.10 | 42.0 | 2500-5200 | | | |
| | | 40 | 553.0 | 0.98 | 51.0 | 3000-6800 | | | |
| | | 50 | 684.0 | 0.90 | 56.5 | 3000-7200 | | | |
|  | SimpoleD-58 | Extrusion AL6063-T5 | Φ58 | 50 | 174.0 | 3.70 | 12.2 | 500-1600 | |
| | | | | 80 | 244.0 | 2.90 | 15.5 | 500-2000 | |
| | | | | 50 | 318.0 | 1.90 | 26.5 | 1200-3400 | |
| | SimpoleD-81 | | Φ81 | 80 | 508.0 | 1.60 | 31.0 | 1800-4000 | |
| | | | | 50 | 484.0 | 0.92 | 49.0 | 2500-6200 | |
| | | | | 80 | 774.0 | 0.80 | 61.0 | 2800-7900 | |
| | SimpoleD-117 | | Φ117 | 40 | 510.0 | 1.10 | 45.0 | 2300-5800 | |
| | | | | 50 | 638.0 | 0.83 | 63.0 | 2800-8000 | |
| | | | | 80 | 1020.0 | 0.71 | 70.0 | 3200-9100 | |
| | SimpoleD-135 | | Φ135 | 50 | 1052.0 | 0.68 | 71.3 | 3200-9200 | |
| | | | | 100 | 2104.0 | 0.48 | 100.0 | 5000-13000 | |
| | | | | 150 | 3155.0 | 0.42 | 120.0 | 5000-16000 | |
|  | MTX-100 | Active Cooling | Φ80 | 125 | 365.0 | 0.30 | 100.0 | 7000-14000 | |
| | MTX-200 | | | Φ110 | 125 | 745.0 | 0.16 | 200.0 | 12000-26000 |
| | MTX-400 | | | Φ225 | 125 | 1520.0 | 0.08 | 400.0 | 20000-50000 |

MENU

eLED coolers

2017 New

| | |
|---------|---|
| eLED-46 | 2 |
| eLED-70 | 2 |
| eLED-95 | 2 |

xLED coolers

2017 New

| | |
|----------|---|
| xLED-45 | 4 |
| xLED-60 | 4 |
| xLED-70 | 4 |
| xLED-80 | 4 |
| xLED-130 | 6 |
| xLED-165 | 6 |
| xLED-225 | 6 |

tLED coolers

2017 New

| | |
|-------------|---|
| tLED-9290 | 8 |
| tLED-19070 | 8 |
| tLED-115115 | 8 |

BuLED coolers

| | |
|----------------------|----|
| BuLED-30E/50E | 10 |
| BuLED-30F/50F/68F | 10 |
| BuLED-30Fx/50Fx/68Fx | 10 |

EtraLED coolers

| | |
|-------------|----|
| EtraLED-48 | 11 |
| EtraLED-70 | 11 |
| EtraLED-85 | 12 |
| EtraLED-96 | 12 |
| EtraLED-110 | 12 |
| EtraLED-130 | 12 |

GooLED coolers

| | |
|------------|----|
| GooLED-48 | 13 |
| GooLED-58 | 13 |
| GooLED-68 | 14 |
| GooLED-78 | 14 |
| GooLED-110 | 14 |
| GooLED-190 | 14 |

MENU

SimpoleLED coolers

| | |
|----------------|----|
| SimpoleLED-58 | 16 |
| SimpoleLED-81 | 16 |
| SimpoleLED-135 | 16 |
| SimpoleLED-160 | 16 |

Active Cooling

| | |
|---------|----|
| MTX-100 | 18 |
| MTX-200 | 18 |
| MTX-400 | 18 |

Custom Assembly

| | |
|-----------------------------|----|
| Spot Light / Downlight Kits | 19 |
| MR16 Kits | 20 |
| Track Light Kits | 22 |

Reflector Series

| | |
|--------------|----|
| JTK69xx-RE-K | 24 |
| JTK75xx-RE-K | 24 |
| JTK85xx-RE-K | 24 |
| JTK92xx-RE-K | 24 |

Power Supply

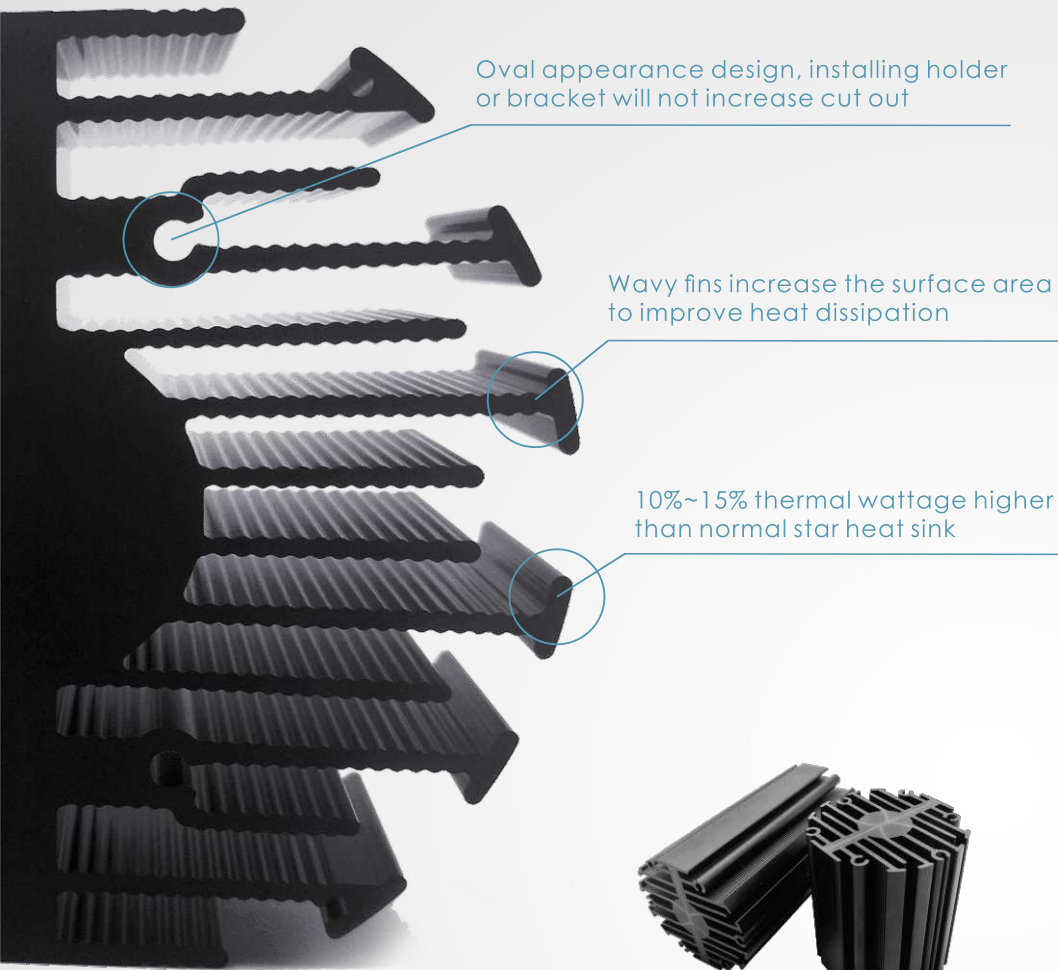
| | |
|---------|----|
| Ro1 | 25 |
| Ro2 | 25 |
| Ro3 | 25 |
| Ro5 | 25 |
| Rt1/Rt2 | 26 |
| Rt3 | 26 |



TW: Thermal Wattage TR: Thermal Resistance

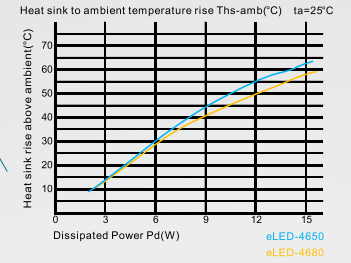
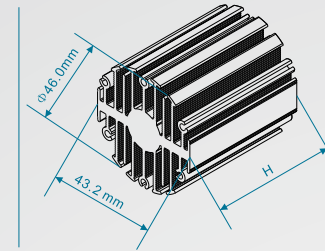
BuLED-E/eLED/EtraLED/SimpoleLED coolers: Customized for height $\geq 20\text{mm}$

eLED coolers



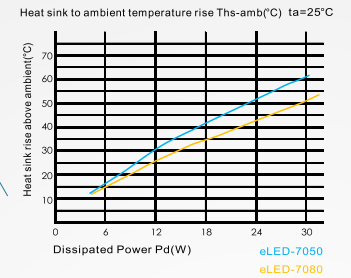
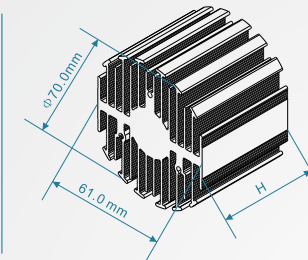
eLED-46

- Size: H50/80mm
- Material: AL6063-T5
- Finish: Black/Clear Anodized
- TW(max): 13.0W
- TR: 3.80~5.00°C/W



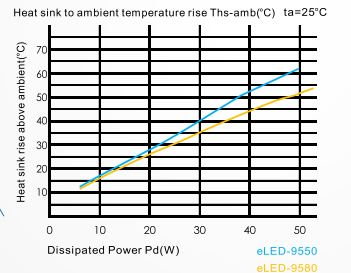
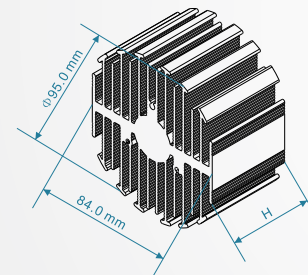
eLED-70

- Size: H50/80mm
- Material: AL6063-T5
- Finish: Black/Clear Anodized
- TW(max): 28.2W
- TR: 1.77~2.18°C/W



eLED-95

- Size: H50/80mm
- Material: AL6063-T5
- Finish: Black/Clear Anodized
- TW(max): 49.2W
- TR: 1.10~1.25°C/W



xLED coolers

There are 4PCS D2.5 holes at the top.

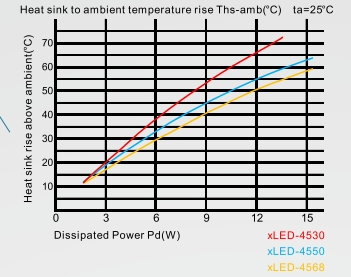
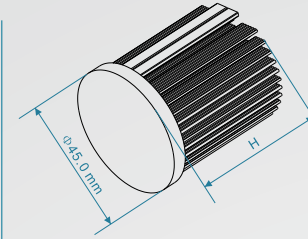
With dissipation surface **40%** more than traditional heatsinks

Side fins to be drilled M3 or M4 holes

Solid bottom plate can meet IP65~IP67

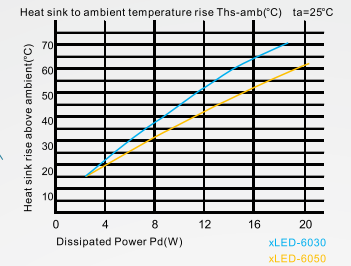
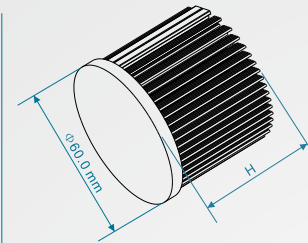
xLED-45

- Size: H30/50/68mm
- Material: ALI 070
- Finish: Black/Clear Anodized
- TW(max): 12.0W
- TR: 4.20~6.40°C/W



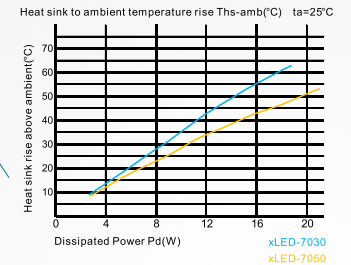
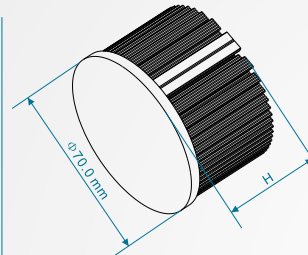
xLED-60

- Size: H30/50mm
- Material: ALI 070
- Finish: Black/Clear Anodized
- TW(max): 15.5W
- TR: 3.30~4.20°C/W



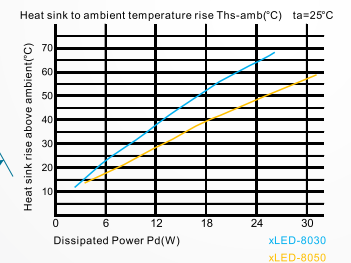
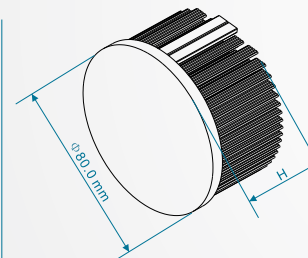
xLED-70

- Size: H30/50/60mm
- Material: ALI 070
- Finish: Black/Clear Anodized
- TW(max): 19.5W
- TR: 2.56~3.30°C/W



xLED-80

- Size: H30/50mm
- Material: ALI 070
- Finish: Black/Clear Anodized
- TW(max): 25.5W
- TR: 1.96~2.70°C/W



xLED coolers

4 poles for mounting Meanwell HBG drivers or drivers housings

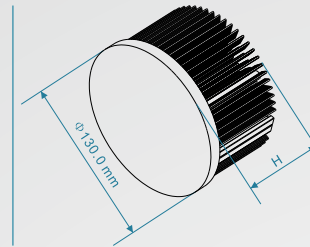
With dissipation surface **40%** more than traditional heatsinks

2pcs Dia3.5mm holes

Solid bottom plate can meet IP65~IP67

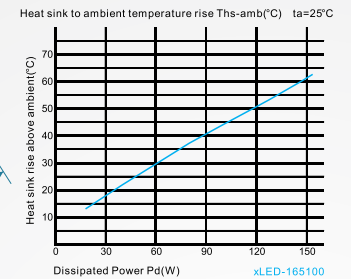
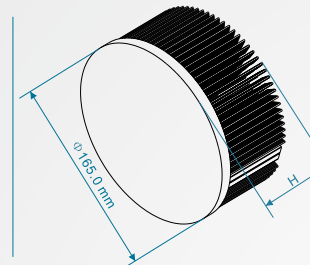
xLED-130

- Size: H30/50/80/100mm
- Material: AL1070
- Finish: Black/Clear Anodized
- TW(max): 65.0W
- TR:0.77~1.51°C/W



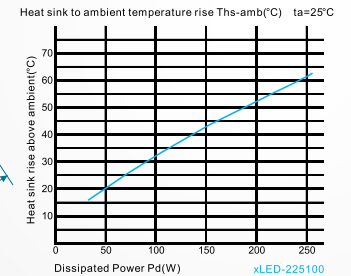
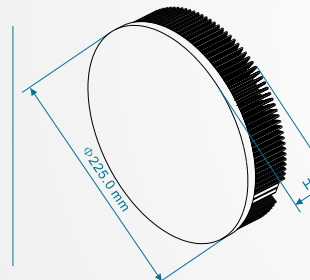
xLED-165

- Size: H30/60/100mm
- Material: AL1070
- Finish: Black/Clear Anodized
- TW(max): 120.0W
- TR:0.42~0.91°C/W



xLED-225

- Size: H30/60/100mm
- Material: AL1070
- Finish: Black/Clear Anodized
- TW(max): 200.0W
- TR:0.26~0.63°C/W



†LED coolers

AL6063-T5 thermal conductivity is **1.5 times higher than ADC12**

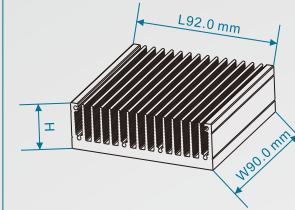
Compatible with more than 20 SMD brands

Solid plate design to **meet the IP65~IP67**

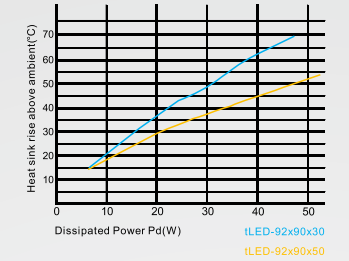
Locations for DIA2.5 or M3 mounting holes (Total 12pcs or 16pcs per sizes)

†LED-9290

- ✉ Size: H30/50mm
- ✉ Material: AL6063-T5
- ✉ Finish: Black/Clear Anodized
- ✉ TW(max): 47.0W
- ✉ TR: 1.06~1.50°C/W

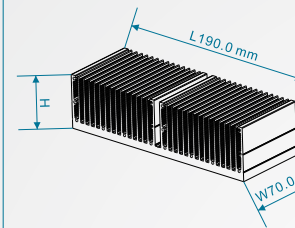


Heat sink to ambient temperature rise $T_{hs-amb}(^{\circ}C)$ $t_a=25^{\circ}C$

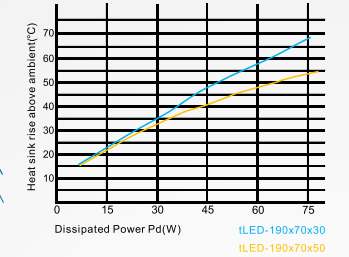


†LED-19070

- ✉ Size: H30/50mm
- ✉ Material: AL6063-T5
- ✉ Finish: Black/Clear Anodized
- ✉ TW(max): 71.0W
- ✉ TR: 0.70~0.95°C/W

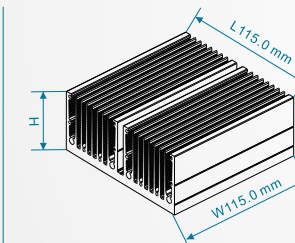


Heat sink to ambient temperature rise $T_{hs-amb}(^{\circ}C)$ $t_a=25^{\circ}C$

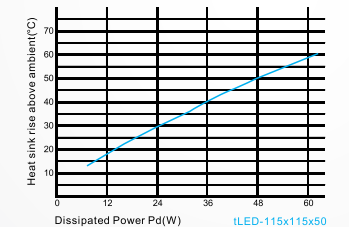


†LED-115115

- ✉ Size: H50mm
- ✉ Material: AL6063-T5
- ✉ Finish: Black/Clear Anodized
- ✉ TW(max): 62.0W
- ✉ TR: 0.78°C/W



Heat sink to ambient temperature rise $T_{hs-amb}(^{\circ}C)$ $t_a=25^{\circ}C$



BuLED coolers



Standard cold forging heat sink
Extra side holes for
installing holder, driver or fan

Adapter MR16 LED modules **High CRI**,
create more concentrated lighting

Compatible with more than 20 COB
brands **covering 85% modules**

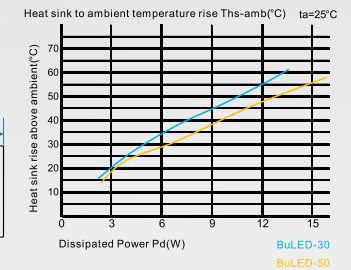
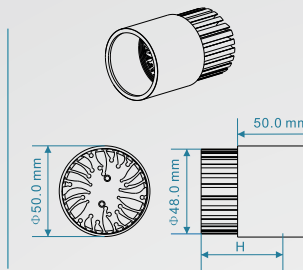
(3) BuLED-Fx



(1) BuLED-E (2) BuLED-F

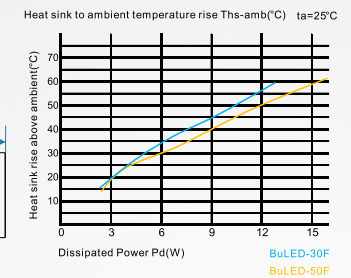
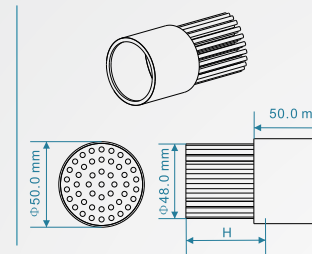
BuLED-30E/50E

- Size: H30/50mm
- Material: AL6063-T5
- Finish: Black/Clear Anodized
- TW(max): 15.0W
- TR: 3.70~4.20°C/W



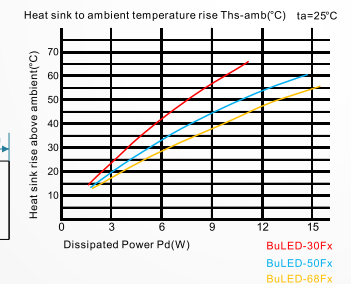
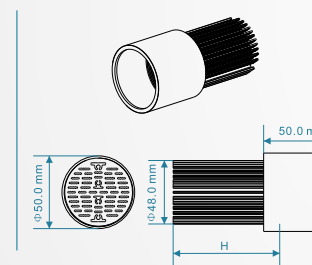
BuLED-30F/50F/68F

- Size: H30/50/68mm
- Material: AL1070+6063-T5
- Finish: Black/Clear Anodized
- TW(max): 15.0W
- TR: 3.70~4.20°C/W



BuLED-30Fx/50Fx/68Fx

- Size: H30/50/68mm
- Material: AL1070+6063-T5
- Finish: Black/Clear Anodized
- TW(max): 13.0W
- TR: 3.80~6.40°C/W



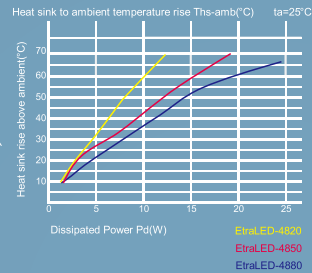
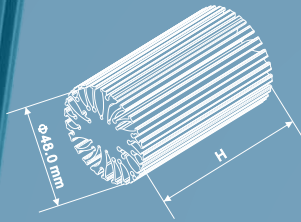
EtraLED coolers

Compatible with more than 20 COB brands. **Covering 85-95% of modules**

AL6063-T5 material

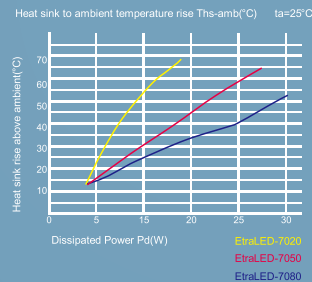
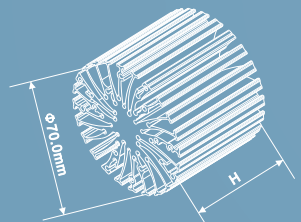
EtraLED-48

- Size: H20/50/80mm
- Material: AL6063-T5
- Finish: Black/Clear Anodized
- TW(max): 14.0W
- TR: 3.60~6.25°C/W



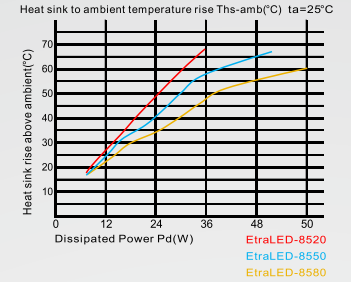
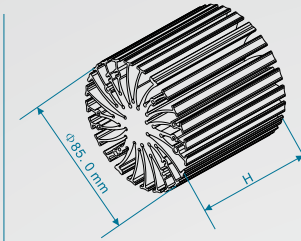
EtraLED-70

- Size: H20/50/80mm
- Material: AL6063-T5
- Finish: Black/Clear Anodized
- TW(max): 28.1W
- TR: 1.80~3.57°C/W



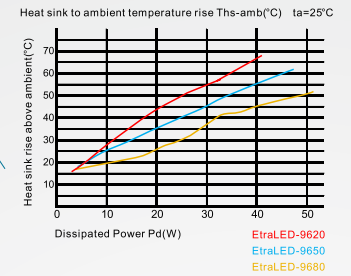
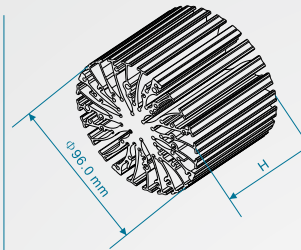
EtraLED-85

- Size: H20/50/80mm
- Material: AL6063-T5
- Finish: Black/Clear Anodized
- TW(max): 38.0W
- TR: 1.30~2.00°C/W



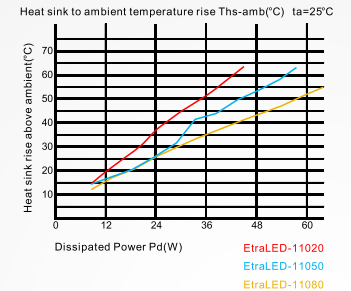
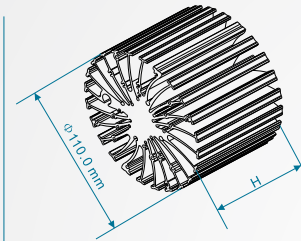
EtraLED-96

- Size: H20/50/80mm
- Material: AL6063-T5
- Finish: Black/Clear Anodized
- TW(max): 49.2W
- TR: 0.92~1.80°C/W



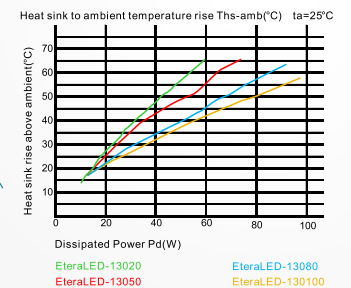
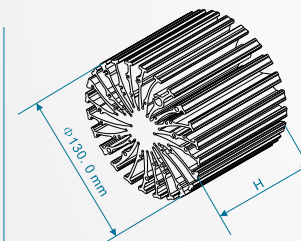
EtraLED-110

- Size: H20/50/80mm
- Material: AL6063-T5
- Finish: Black/Clear Anodized
- TW(max): 57.0W
- TR: 0.90~1.50°C/W



EtraLED-130

- Size: H20/50/80/100mm
- Material: AL6063-T5
- Finish: Black/Clear Anodized
- TW(max): 76.2W
- TR: 0.65~1.10°C/W



GooLED coolers

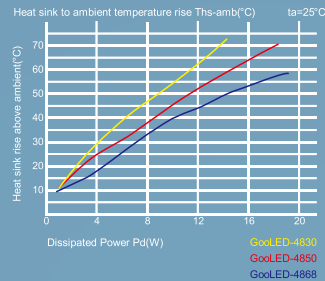
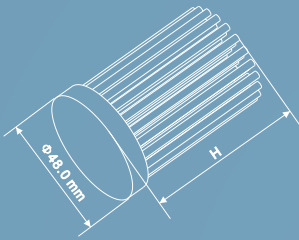
Compatible with more than 20 COB brands.
Covering almost 100% of modules

With 15% higher efficiency in heat dissipation than normal star heatsinks

Use AL1070 material by 30% lighter weight with high efficient heat dissipation

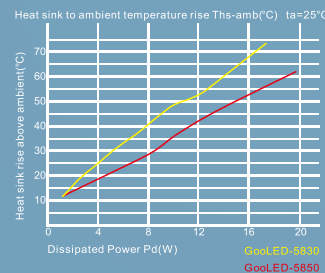
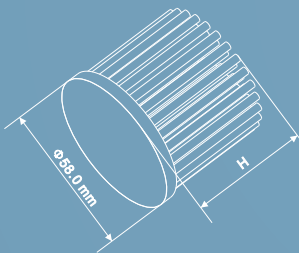
GooLED-48

- M** Size: H30/50/68mm
- M** Material: AL1070
- M** Finish: Black/Clear Anodized
- M** TW(max): 13.5W
- M** TR: 3.70~5.60°C/W



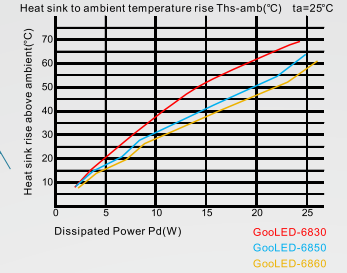
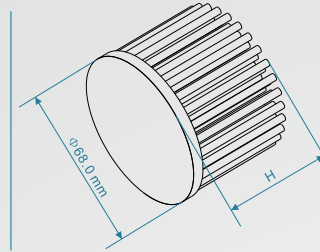
GooLED-58

- M** Size: H30/50mm
- M** Material: AL1070
- M** Finish: Black/Clear Anodized
- M** TW(max): 15.0W
- M** TR: 3.30~4.50°C/W



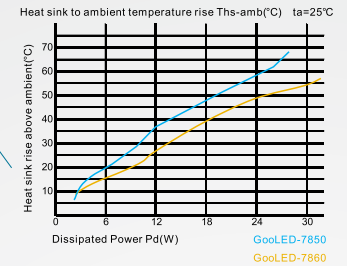
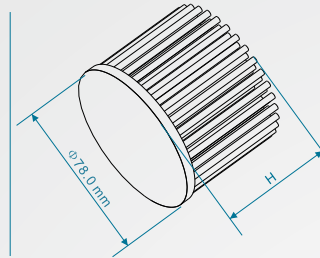
GooLED-68

- M** Size: H30/50/60mm
- M** Material: AL1070
- M** Finish: Black/Clear Anodized
- M** TW(max): 20.0W
- M** TR: 2.50~3.50°C/W



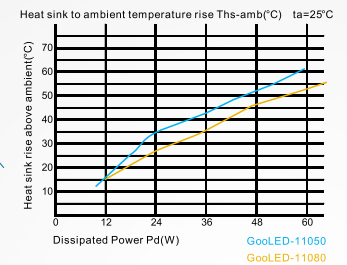
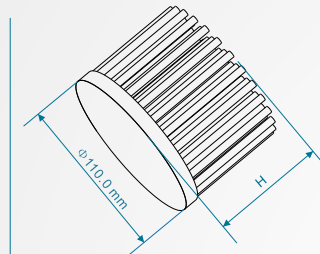
GooLED-78

- M** Size: H50/60mm
- M** Material: AL1070
- M** Finish: Black/Clear Anodized
- M** TW(max): 24.0W
- M** TR: 2.10~2.70°C/W



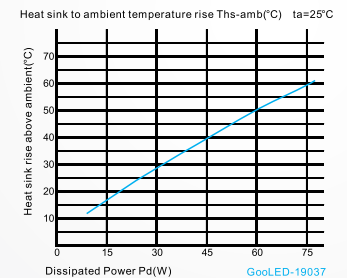
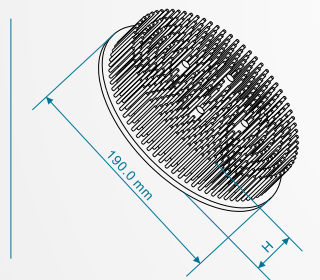
GooLED-110

- M** Size: H50/80mm
- M** Material: AL1070
- M** Finish: Black/Clear Anodized
- M** TW(max): 50.5W
- M** TR: 0.92~1.30°C/W



GooLED-190

- M** Size: H37mm
- M** Material: AL1070
- M** Finish: Black/Clear Anodized
- M** TW(max): 60.0W
- M** TR: 0.83°C/W



SimpoleD coolers

Fan, drivers and others can be installed on top if needed

Customized holes

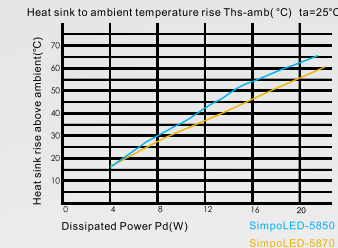
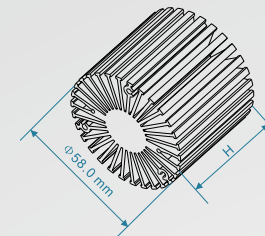
Screw holes can be drilled on the bottom and side

AL6063-T5 material

Wide range for thermal power,
Min 12.2w, Max 120w

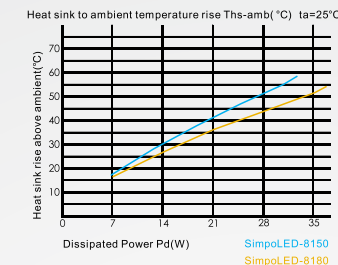
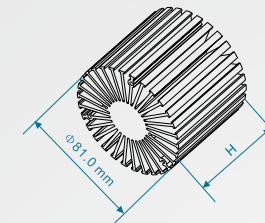
SimpoleD-58

- Size: H50/70mm
- Material: AL6063-T5
- Finish: Black/Clear Anodized
- TW(max): 15.5W
- TR: 2.90~3.70°C/W



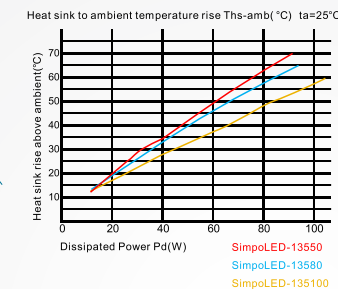
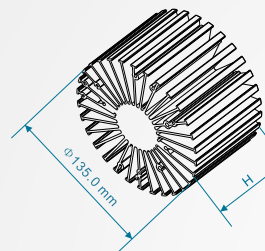
SimpoleD-81

- Size: H50/80mm
- Material: AL6063-T5
- Finish: Black/Clear Anodized
- TW(max): 31.2W
- TR: 1.60~1.90°C/W



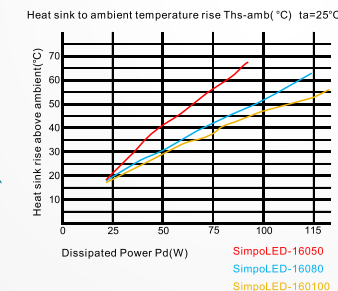
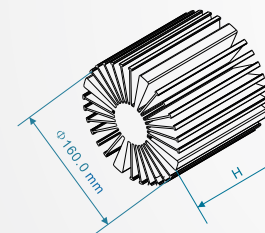
SimpoleD-135

- Size: H50/80/100mm
- Material: AL6063-T5
- Finish: Black/Clear Anodized
- TW(max): 84.0W
- TR: 0.71~0.83°C/W



SimpoleD-160

- Size: H50/100/150mm
- Material: AL6063-T5
- Finish: Black/Clear Anodized
- TW(max): 120.0W
- TR: 0.50~0.70°C/W



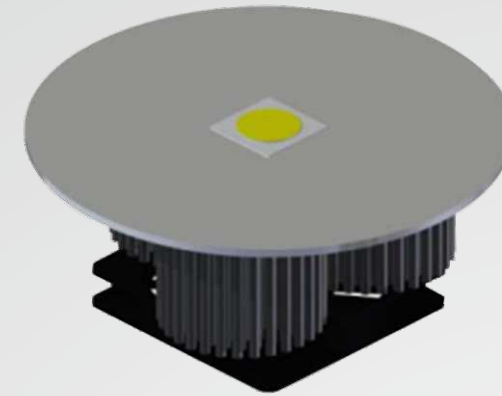
Active Cooling



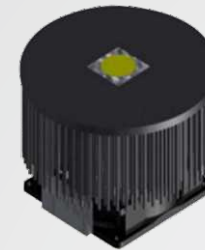
MTX Series

Pin-Fin Heat Sinks with Self-Powered Active Cooling For High-Wattage LED Lighting Applications

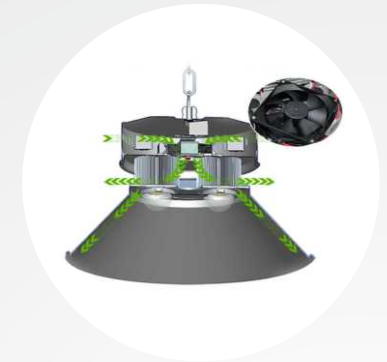
- Compact...Light weight
- Up to 6 times more cooling than same size & weight passive heat sinks
- Large mounting surface accommodates large COBs or SMD arrays
- Requires no external DC power supply to power fan
- Silent Operation
- Over 100,000 hour life expectancy
- Compatible with virtually all constant-current LED drivers
- compatible with COBs & SMD arrays of major manufacturers
- Unprecedented versatility



MTX-400



MTX-100/MTX-200





| SPECIFICATIONS | | | |
|---|------------------------------|----------------------------|--|
| Model | Thermal Resistance (Maximum) | Power capability (Minimum) | Audible Noise (Maximum) @ industry-standard one-meter distance |
| MTX-100 | 0.3 C/watt | 100 | 18db |
| MTX-200 | 0.16C/watt | 200 | 18db |
| MTX-400 | 0.08C/watt | 400 | 18db |
| Fan type—UL recognized, brushless, dual-ball bearing, computer grade fan Integral voltage converter—all UL recognized components Note 1 at 40 C ambient temperature | | | |

Custom Assembly

(1) Spot Light Kits Downlight Kits








Spot light/Downlight kits include heatsink, bracket, COB connector, reflector, central ring, inner ring, outer ring, spring.

| | Cutout | Light Angle | Power | Lumen value | Applicable module | |
|--|--------|------------------|---------------|-------------|-------------------|---|
| | | | | | | |
| EC11070  | Φ110 | 24/40/60 degrees | 12 w ~ 24 w | 800~2800lm | Tridonic | S17 |
| | | | | | Samsung | S13 |
| | | | | | Osram | PI3 /S13 |
| | | | | | CREE | CXA15xx / 18 xx |
| | | | | | Bridgelux | v10V13 V15 |
| FC11070  | Φ110 | 24/40/60 degrees | 15 w ~ 28.2 w | 800~3500lm | Suole | Zc12 Zc18 |
| | | | | | Lumileds | I204 I205 |
| | | | | | Citizen | CLL030 CLL630 CLL730 CLL720 CLL163 CLL173 |

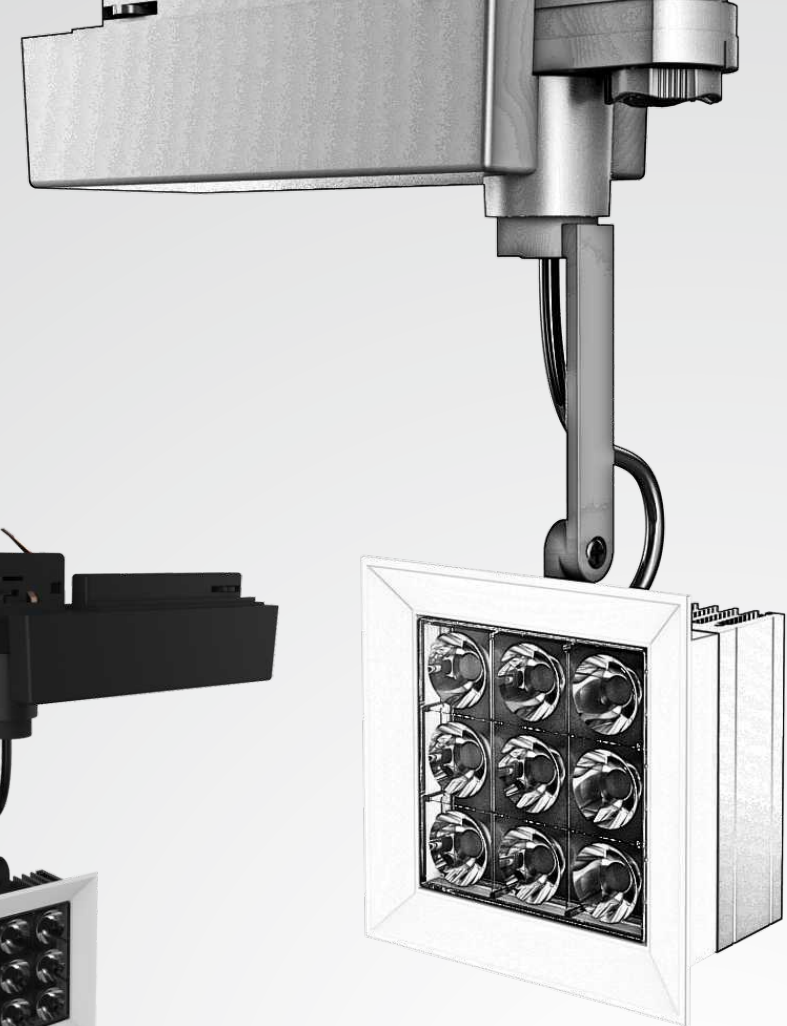
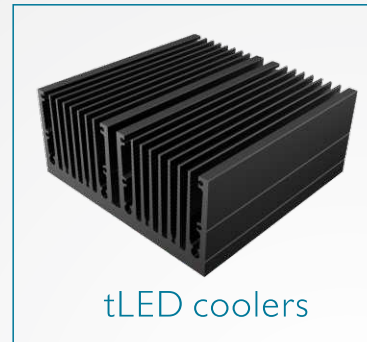
(2) MR16 Kits



MR16 kits include heatsink, lens or reflector. You can choose the following kits as options for MR16 retrofit.

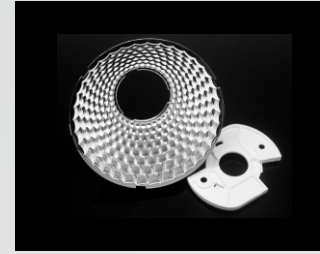
| | NO. | Size: | Light Angle | Power | Lumen value |
|---|-------------|-------------------|-------------|--------|-------------|
|  | B uLED-30E | Dia .50xh M 65m m | 24/38 | 8-12W | 600~1300 |
|  | B uLED-50E | Dia .50xh M 80m m | 24/38 | 10-15W | 700~1700 |
|  | B uLED-30Fx | Dia .50xh M 65m m | 24/38 | 8-12W | 600~1300 |
|  | B uLED-50Fx | Dia .50xh M 80m m | 24/38 | 10-15W | 700~1700 |
|  | D T-36Y | Dia .50xh 60m m | 45/60 | 3-6W | 250~600 |
|  | D T-59Y | Dia .50xh 75m m | 45/60 | 5-9W | 350~1000 |

(3) Track Light Kits



Power: Max. 27 w
Lumen Value: 800~3800lm
Light Angle: 10 degrees
Applicable Modules: 3535 Chips (e.g. Cree XPE Chips)
Color: white, black, gray
Parts: drive box, heatsink, lens, connecting rod

Reflector Series



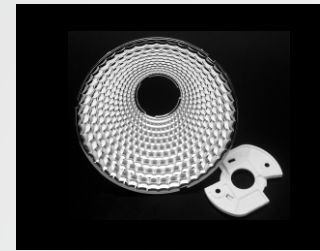
JTK69xx-RE-K

- Brand: Mingfa Tech
- Model: JTK69xx-RE-K
- Dia: 69.0mm
- Height: 36.1mm
- Beam Angle: 24°40°60°
- Material: PC



JTK75xx-RE-K

- Brand: Mingfa Tech
- Model: JTK75xx-RE-K
- Dia: 75.0mm
- Height: 44.4mm
- Beam Angle: 24°40°60°
- Material: PC



JTK85xx-RE-K

- Brand: Mingfa Tech
- Model: JTK85xx-RE-K
- Dia: 85.0mm
- Height: 44.4mm
- Beam Angle: 24°40°60°
- Material: PC



JTK92xx-RE-K

- Brand: Mingfa Tech
- Model: JTK92xx-RE-K
- Dia: 92.0mm
- Height: 44.3mm
- Beam Angle: 24°40°60°
- Material: PC

Reflector series are compatible with the branded LED module types listed as below:

- Tridonic: S17 Series.
- Sharp: 2024 Series.
- Osram: P13, S13, S19 Series.
- Samsung: S13, S21 Series.
- Luminus: CXM-14, CXM-18 Series.
- Seoul: ZC12, ZC18, ZC25, ZC40 Series.
- LumiLEDs: 1204, 1205, 1208, 1211 Series.
- Bridgelux: Vero10, Vero13; V15, V18 Series
- CREE: CXA15xx, CXA18xx, CXA25xx Series.
- Edison: HM05-18D, SL09, HM1630, HM40D, SL30 Series
- Citizen: CLL030, CLL630, CLL730, CLL720, CLL163, CLL173 Series.
- Lustrous: CCN09F-30F, LL604-620F, LL708-730F, CCH14-18 Series.

POWER Supply

5W~10W

High PF Constant Current
Size: Ro1 (Φ55.0*h24.0mm)



| Model | Input Voltage (V) | Output current (mA) | Tol. | Output Voltage (V) | PF | Effi. | IP | Approval |
|--------------|-------------------|---------------------|------|--------------------|------|---------|------|--------------|
| FLD08-12070H | 220-240 | 700 | ±5% | 8-13 | >0.9 | 80%-85% | IP20 | CE/CB/SA/TUV |
| FLD08-16050H | 220-240 | 500 | ±5% | 8-16 | >0.9 | 80%-85% | IP20 | CE/CB/SA/TUV |
| FLD08-23035H | 220-240 | 350 | ±5% | 8-23 | >0.9 | 80%-85% | IP20 | CE/CB/SA/TUV |
| FLD08-30025H | 220-240 | 250 | ±5% | 14-30 | >0.9 | 80%-85% | IP20 | CE/CB/SA/TUV |

8W~12W

High PF Constant Current
Size: Ro2 (Φ65.0*h24.0mm)



| Model | Input Voltage (V) | Output current (mA) | Tol. | Output Voltage (V) | PF | Effi. | IP | Approval |
|--------------|-------------------|---------------------|------|--------------------|------|---------|------|--------------|
| FALP12-17070 | 100-240 | 700 | ±5% | 8-17 | >0.9 | 80%-85% | IP20 | CE/CB/SA/TUV |
| FALP12-24050 | 100-240 | 500 | ±5% | 8-24 | >0.9 | 80%-85% | IP20 | CE/CB/SA/TUV |
| FALP12-34035 | 100-240 | 350 | ±5% | 14-34 | >0.9 | 80%-85% | IP20 | CE/CB/SA/TUV |
| FALP12-40025 | 100-240 | 250 | ±5% | 20-43 | >0.9 | 80%-85% | IP20 | CE/CB/SA/TUV |

15W~20W

High PF Constant Current
Size: Ro3 (Φ75.0*h26.0mm)



| Model | Input Voltage (V) | Output current (mA) | Tol. | Output Voltage (V) | PF | Effi. | IP | Approval |
|--------------|-------------------|---------------------|------|--------------------|------|---------|------|--------------|
| FALP18-26070 | 100-240 | 700 | ±5% | 15-26 | >0.9 | 80%-85% | IP20 | CE/CB/SA/TUV |
| FALP18-36050 | 100-240 | 500 | ±5% | 20-36 | >0.9 | 80%-85% | IP20 | CE/CB/SA/TUV |
| FALP18-40035 | 100-240 | 350 | ±5% | 20-40 | >0.9 | 80%-85% | IP20 | CE/CB/SA/TUV |
| FALP18-65030 | 100-240 | 300 | ±5% | 45-65 | >0.9 | 80%-85% | IP20 | CE/CB/SA/TUV |

POWER Supply

30W~40W

High PF Constant Current
Size: Ro5 (Φ95.0*h29.0mm)



| Model | Input Voltage (V) | Output current (mA) | Tol. | Output Voltage (V) | PF | Effi. | IP | Approval |
|---------------|-------------------|---------------------|------|--------------------|------|---------|------|--------------|
| FALD30-40080H | 220-240 | 800 | ±5% | 20-40 | >0.9 | 80%-85% | IP20 | CE/CB/SA/TUV |
| FALD30-32090H | 220-240 | 900 | ±5% | 20-32 | >0.9 | 80%-85% | IP20 | CE/CB/SA/TUV |
| FALD30-29105H | 220-240 | 1050 | ±5% | 20-32 | >0.9 | 80%-85% | IP20 | CE/CB/SA/TUV |
| FALD40-40105H | 220-240 | 1050 | ±5% | 20-40 | >0.9 | 80%-85% | IP20 | CE/CB/SA/TUV |

2W~15W; 3W~20W

Triac Dimmable
Size: Rt1 (79.8*38.2*21.0mm)
Rt2 (82.8*53.8*24.0mm)



| Model | Input Voltage (V) | Output current (mA) | Tol. | Output Voltage (V) | PF | Effi. | IP | Approval |
|-----------|-------------------|---------------------|------|--------------------|------|---------|------|----------------|
| FAL-D1542 | 100-132 | 100-300 | ±5% | 18-42 | >0.9 | 80%-85% | IP20 | Triac Dimmable |
| FAL-D2042 | 100-132 | 150-400 | ±5% | 18-42 | >0.9 | 80%-85% | IP20 | Triac Dimmable |
| FAL-D4042 | 100-132 | 450-800 | ±5% | 18-42 | >0.9 | 80%-85% | IP20 | Triac Dimmable |

40W~60W

High PF Constant Current
Size: Rt3 (118.0*69.5*32.5mm)



| Model | Input Voltage (V) | Output current (mA) | Tol. | Output Voltage (V) | PF | Effi. | IP | Approval |
|---------------|-------------------|---------------------|------|--------------------|------|---------|------|--------------|
| FALP50-40105 | 100-240 | 1050 | ±5% | 20-40 | >0.9 | 80%-85% | IP20 | CE/CB/SA/TUV |
| FALP50-40110 | 100-240 | 1100 | ±5% | 20-40 | >0.9 | 80%-85% | IP20 | CE/CB/SA/TUV |
| FALP50-40120 | 100-240 | 1200 | ±5% | 20-40 | >0.9 | 80%-85% | IP20 | CE/CB/SA/TUV |
| FALP50-40140 | 100-240 | 1400 | ±5% | 20-40 | >0.9 | 80%-85% | IP20 | CE/CB/SA/TUV |
| FALP50-40105C | 220-240 | 1050 | ±5% | 20-40 | >0.9 | 80%-85% | IP20 | CCC |
| FALP50-40110C | 220-240 | 1100 | ±5% | 20-40 | >0.9 | 80%-85% | IP20 | CCC |
| FALP50-40120C | 220-240 | 1200 | ±5% | 20-40 | >0.9 | 80%-85% | IP20 | CCC |
| FALP50-40140C | 220-240 | 1400 | ±5% | 20-40 | >0.9 | 80%-85% | IP20 | CCC |