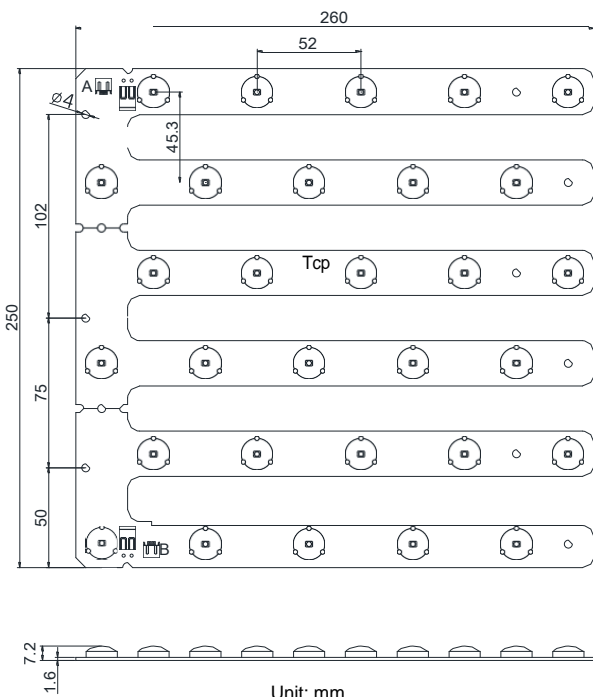
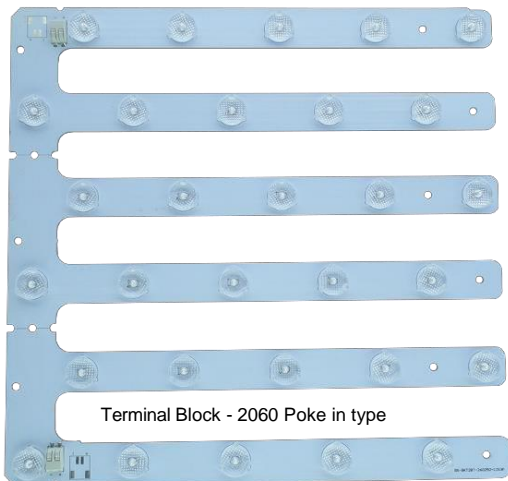
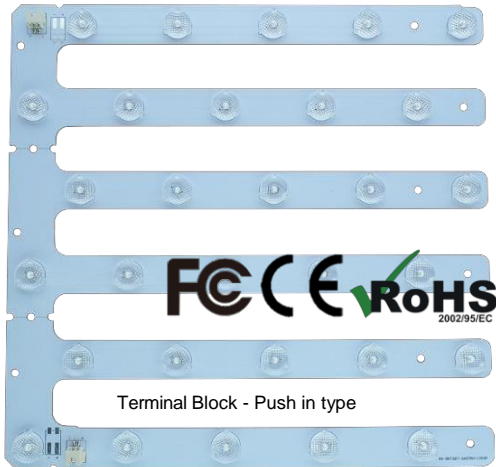


**Description:**

RX-BKT28T-2625, FINGER TYPE LED module; Ideal for panel lights. Lens Attached Module, 25mm Depth NO HOT SPOTS! Can effectively reduce the space occupied by the lamp. Perfectly uniform light, even if several LED modules are used together in a group. LED panel systems are designed to produce pure white light for general lighting applications with high efficiency level. For a variety of lighting.



**CRI: > 80**

Efficiency up to 132Lm/W

**160°Lens**

25mm No depth hot spots

**Ta -40~50 °C**

No additional heatsink

**LED Triangle**

Good Luminous uniformity

**Warranty**

3 years

**Stitching Size 1.2m<sup>2</sup>**

Free connection wires

**Application specs**

LED module Brightness 1000Lm @7.6W ; 1660Lm @14.7W

Default Colors CW6000~6500K

Other colors WW2800~3200K NW3800~4250K

Waterproof Rating No IP rating

Operating Temperature -40~85°C (PCB /Tc)

**Electrical specs**

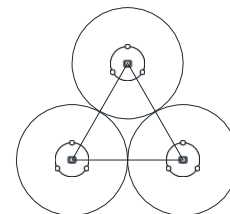
Power 7.6W @0.25A; 14.7W@0.45A

Input DC30.4V@0.25A ; DC32.6V@0.45A

Interconnect connection --

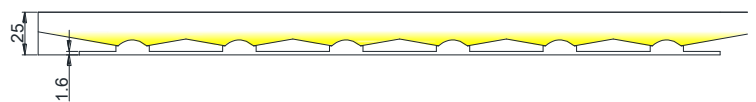
Certification CE RoHS FCC

Life-Span >50000hours Tc< 70 °C, I<0.45A



Triangle LED arrangement

Good Luminous uniformity



160°Lens 25mm No depth hot spots

Data is in-3mm PC light diffusion or Acrylic board

Different brands and models will be different!

Before large quantities, please test samples.

Technical Data:

| Part Number    | Dimensions<br>Net weight | LED<br>QTY      | Test<br>Current | Forward<br>Voltage Typ | Luminou<br>s flux Typ | Power<br>Typ | Efficacy<br>Typ | Stitching qty*<br>Max 3A | Tcp<br>Test |
|----------------|--------------------------|-----------------|-----------------|------------------------|-----------------------|--------------|-----------------|--------------------------|-------------|
| RX-BKT28T-2625 | 260x250mm<br>175g        | 10s 3p<br>30pcs | 0.15A           | 29.1V                  | 629Lm                 | 4.4W         | 143Lm/W         | 20pcs                    | 30°C        |
|                |                          |                 | 0.25A           | 30.4V                  | 1000Lm                | 7.6W         | 132Lm/w         | 12pcs                    | 33°C        |
|                |                          |                 | 0.35A           | 31.5V                  | 1340Lm                | 11W          | 122Lm/w         | 8pcs                     | 35°C        |
|                |                          |                 | 0.45A           | 32.6V                  | 1660Lm                | 14.7W        | 113Lm/W         | 6pcs                     | 38°C        |

Note: Beam characteristic 160°, Tolerance range for optical data: ±10%. Tolerance range for electrical data ±5%

The above table data testing at room temperature is 25°C, Cooling by free air convection. LED color temperature 6000-6500K, CRI 85,

\* Stitching qty: Number of Parallel Connection

Maximum Rated Values

| Part Number    | Forward Current | Forward Voltage |
|----------------|-----------------|-----------------|
| RX-BKT50-28040 | 0.5A            | 33.1V@0.5A      |
| --             |                 |                 |

Thermal Characteristics / Thermal Management

|                              |                            |
|------------------------------|----------------------------|
| Operating Temperature, Tcp   | -40 ~ +65°C                |
| Max. Solder Point Temp., Tcp | 85°C                       |
| Tc_life Tcp=65°C             | 50,000 @ 450mA<br>(L70B50) |

Standard Driver Options 100% No flicker

|               | Low brightness                                | High brightness                            |
|---------------|---|--|
| EFC-022-600mA | 2P 31V @0.3A x2<br>2360Lm AC21W PF0.9         | --   |
| HLG-60-30A    | 8P 30.4V @0.25A x8<br>8020Lm AC 67W PF0.9     | 4P 32.6V @0.45A x4<br>6630Lm AC 65W PF0.9  |
| HLG-120-30A   | 16P 30.4V @0.25A x16<br>16000Lm AC 134W PF0.9 | 8P 32.6V @0.45A x8<br>13200Lm AC130W PF0.9 |
| --            |   |  |

Part Numbering

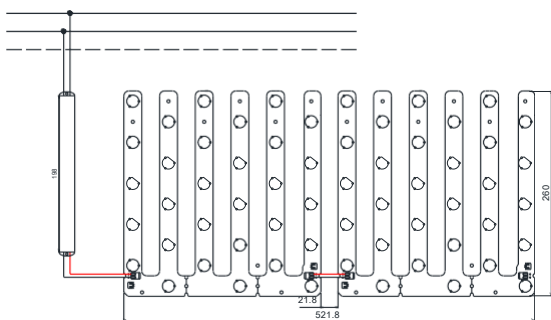
| RX-BKT | -28T  | -XXXX    | -XX              |
|--------|-------|----------|------------------|
|        | LED   | PCB Size | Photometric Code |
|        | Model |          | CW6000-6500K     |
|        | +Lens |          | NW3800-4250K     |
|        |       |          | WW2800-3200K     |

Where 1S = 1 Serial Connection, 2P is 2 Module in Parallel Connection etc; Power includes drivers consumption

HLG-120-30A 16P and 8P Parallel Connection, The total current exceeds 3A; requires additional cable.

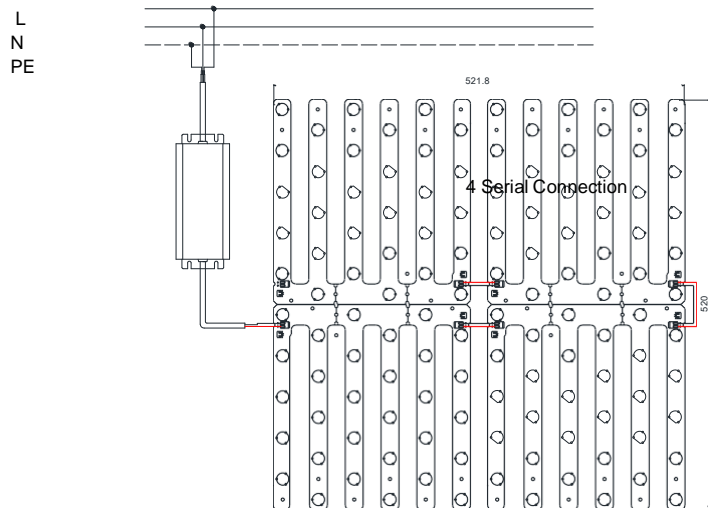
For 3 example:

300x600mm

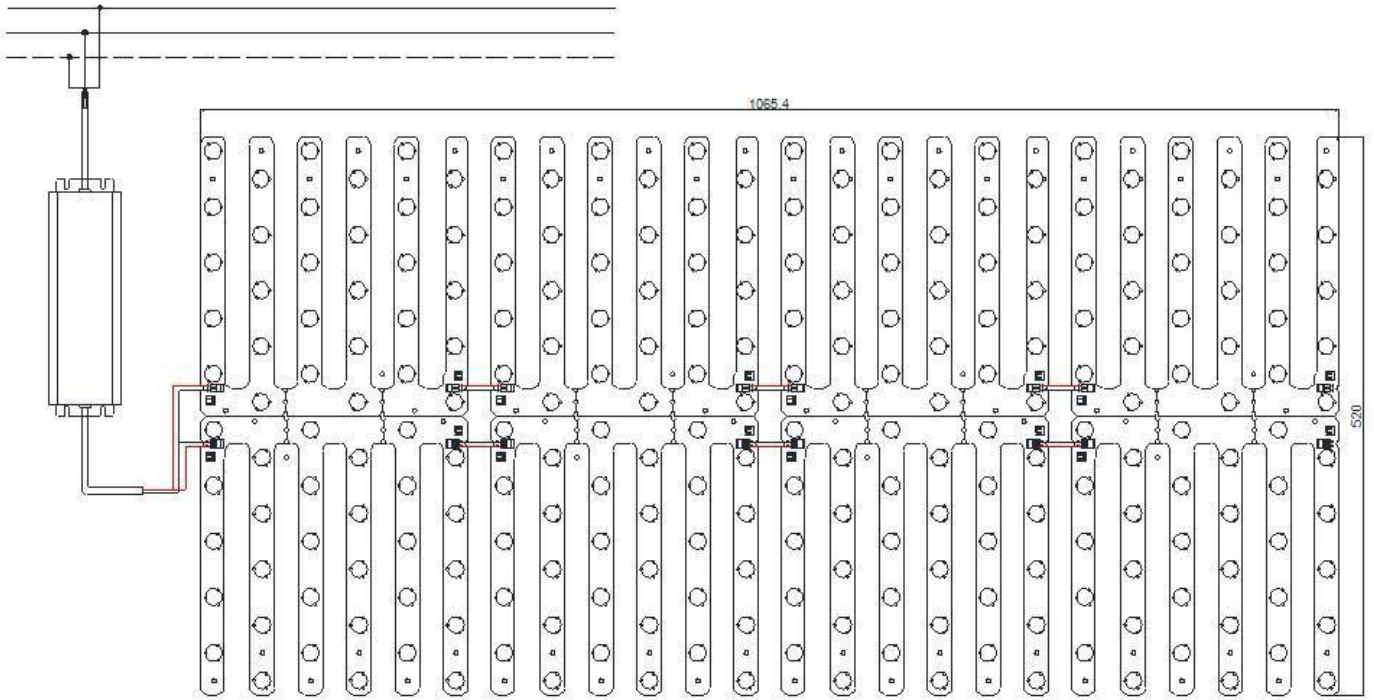


LED drivers EFC-022 for 2P 31V @0.3A x2 =18.6W 2360Lm  
AC Power: 21W PF0.9

600x600mm

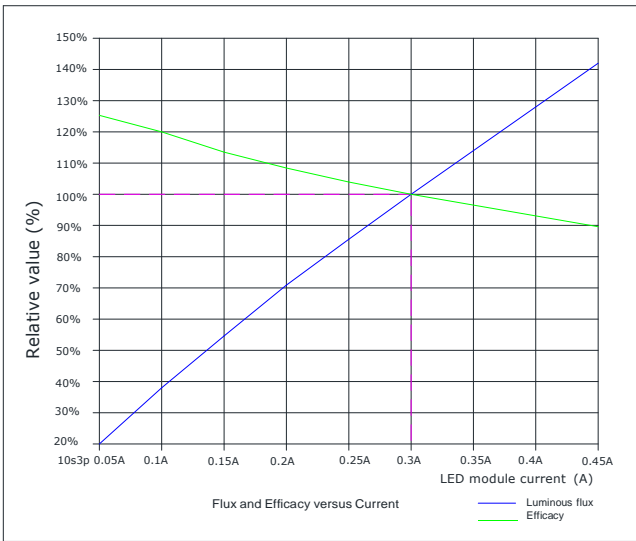


LED drivers HLG-60-30A for 4P x0.45A 32.6V @0.45A x4=58.68W 6630Lm  
AC Power: 65W PF 0.9

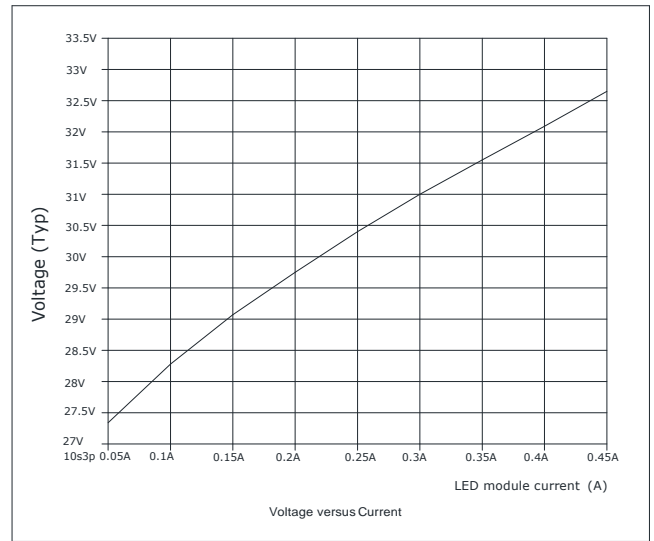


LED drivers HLG-120-30A for 8P x0.45A 32.6V @0.45A x8=117W 13200Lm / AC Power: 130W PF 0.9

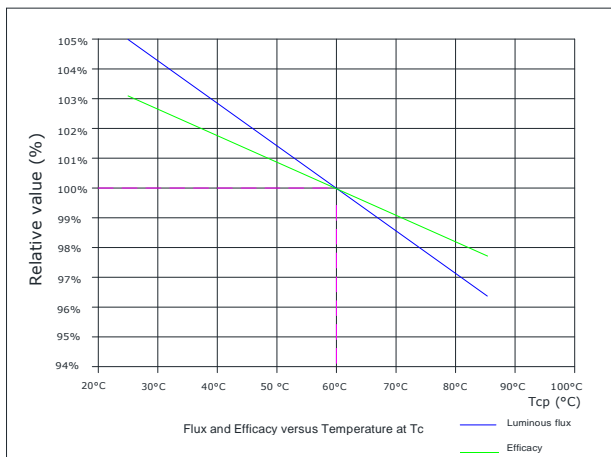
### Flux and Efficacy versus Current



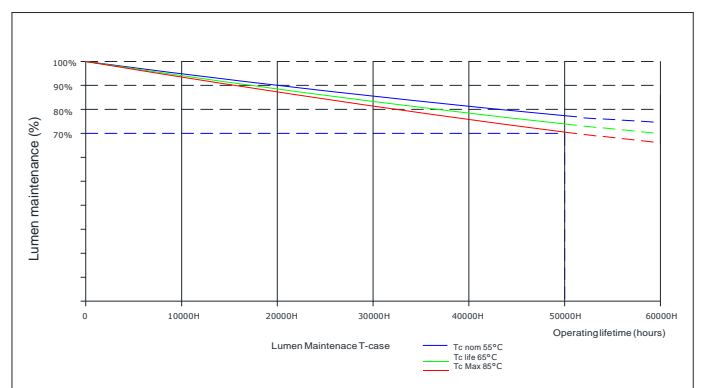
### Voltage versus Current



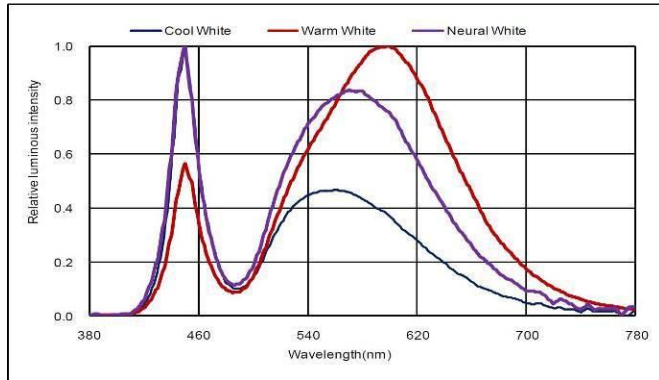
### Flux and Efficacy versus Temperature at Tc



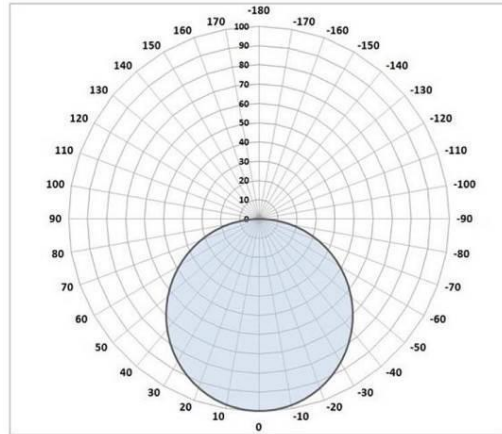
### Lumen Maintenance T-case



Relative spectral emission



Light distribution



Mounting instruction

Max. torque for fixing: 0.5 Nm.

The LED modules are mounted with min. 2 screws per module. In order not to damage the modules only rounded head screws and an additional plastic flat washer should be used.

Precautions In Handling

1, LED Lighting for white light are devices which are materialized by combining white LEDs. The color of white light can differ a little unusually to diffuser plate (sign-board panel).

2, Handling

Don't drop the unit and don't give the unit any shocks.

Don't storage the Module in a dusty place or room.

Don't take the unit to pieces.

3, Cleaning

This LED Module should not be used in any type of fluid such as oil, organic solvent, etc.

It is recommended that IPA (Isopropyl Alcohol) be used as a solvent for cleaning the LED Module.

When using other solvents, it should be confirmed beforehand whether the solvents will dissolve the package and the resin or not. Freon solvents should not be used to clean

the LEDs because of worldwide regulations. Do not clean the LED Module by the ultrasonic.

Before cleaning, a pre-test should be done to confirm whether any damage to the LED Lighting will occur.

4, Static Electricity

Static electricity or surge voltage damages the LED Lighting.

5, Discoloration

VOCs (volatile organic compounds) may be occurred by adhesives, flux, hardener or organic additives which is used in luminaires (fixture) and LED silicone bags are permeable to it. It may lead a discoloration when LED expose to heat or light.

This phenomenon can give a significant loss of light emitted (output) from the luminaires (fixtures). In order to prevent these problems, we recommend you to know the physical properties for the materials used in luminaires, it requires to select carefully.

5, Risk of Sulfurization (or Tarnishing)

The lead frame is a plated package and it may change to black. (or dark colored) when it is exposed to Ag (a), Sulfur (S), Chlorine (Cl) or other halogen compound. It requires attention.

Sulfide (Sulfurization) of the lead frame may cause a change of degradation intensity, chromaticity coordinates and it may cause open circuit in extreme cases. It requires attention.

Sulfide (Sulfurization) of the lead frame may cause of storage and using with oxidizing substances together. Therefore, LED is not recommend to use and store with the below list.: Rubber, Plain paper, lead solder cream etc.

6, Others

If over voltage which exceeds the absolute maximum rating is applied to LED Lighting, it will cause damage Circuits (that LED is included) and result in destruction.

Do not directly look into lighted LED with naked eyes for longtime.