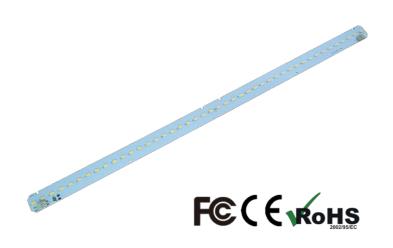


MODEL: RX-BKT57-56025

Http: www.xinelam.com

# **Description:**

RX-BKT57-56025, LED module / Small-sized LED umodule- Ideal for linear and panel lights. WAGO2060 Terminal Block, very easy to connect and remove the conductors. Perfectly uniform light, even if several LED modules are used together in a line. LED Line systems are designed to produce pure white light for general lighting applications with high efficiency level, surpassing T5. For a variety of lighting.

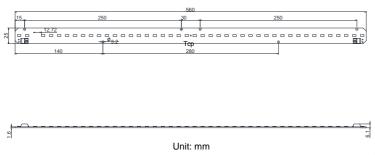


CRI: > 80 3000K/4000K/6000K Up to 143Lm/W 9.5W / 1360Lm 20.2W / 2420Lm

Size 560x25mm 44 LEDs **Power** 9.5W@300mA 20.2W@600mA

Warranty 3 years Safe and reliable

Low Voltage Input(31V~36V)



Application specs				
LED module Brightness	NW: 1320Lm@9.5W ;2360Lm@20.2W			
Default Colors	CW6000~6500K			
Other colors	WW2800~3200K NW3800~4250K			
Waterproof Rating	IP20			
Operating Temperature	-22°F~185°F (-30~85°C) PCB/Tcp			
Electrical specs				
Power	9.5W @300mA; 20.2W @600mA			
Input	DC31.6V@300mA; DC33.7V@600mA			
Interconnect connection	Max 4pcs @ 600mA 8pcs @ 300mA			
Certification	CE RoHS FCC			
Life-Span	>50000hours			

# Technical Data:

Part Number	Dimensions Net weight	ССТ	LED QTY	Luminous flux Typ	Forward VoltageTyp	Test Current	Power Typ	Efficacy Typ	Tcp Test
	Net weight		QII	,	0 7.				
RX-BKT57-56025-CW	RX-RKT57-56025-CW	6000~6500K		1360Lm	31.6V	300mA	9.5W	143Lm/W	40°C
100 BN107 00020 000	COOC GOOOK		2420Lm	33.7V	600mA	20.2W	120Lm/W	65°C	
DV DIZTEZ EGOGE NIM	560x25mm	3800~4250K	11s 4p	1330Lm	31.6V	300mA	9.5W	140Lm/W	40°C
RX-BKT57-56025-NW	65g			44pcs	2380Lm	33.7V	600mA	20.2W	118Lm/W
RX-BKT57-56025-WW			1320Lm	31.6V	300mA	9.5W	139Lm/W	40°C	
	2800~3200K		2360Lm	33.7V	600mA	20.2W	117Lm/W	65°C	

Note: Beam characteristic120 °, Ripple max. 15 % of typ. forward current; Max. permissible surge current: 1 A, duration max. 10 μs Tolerance range for optical and electrical data: ±10 %.



**MODEL: RX-BKT57-56025** 

Http: www.xinelam.com

#### Maximum Rated Values

Part Number	Forward Current	Forward Voltage
RX-BKT57-56025	700mA	34.3V@700mA

### Thermal Characteristics

Storage Temperature, TSTG	-30 ~ +85°C
Operating Temperature, Top	-30 ~ +85°C
Max. Solder Point Temp., Tcp	85°C

### Standard Driver Options 100% No flicker

	Low brightness	High brightness
	145Lm/W	121Lm/W
EFC-09-300mA	1S / 11W	
EFC-15D-420mA	2P / 16W	
EFC-022-600mA	2P / 22W	1S / 24W
HLG-40H-36	4P / 42W	2P / 45W

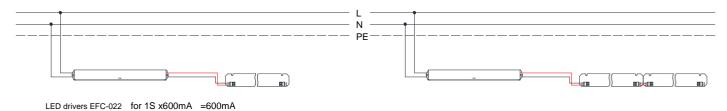
### Part Numbering

- <u>57</u>	- <u>XXXX</u>	- <u>XX</u>
LED	PCB Size	Photometic Code
Model		CW6000~6500K
		NW3800~4250K
		WW2800~3200K
	LED	LED PCB Size

Where 1S = 1 Module, 4P is 4 Module in parallel etc; Power includes drivers consumption

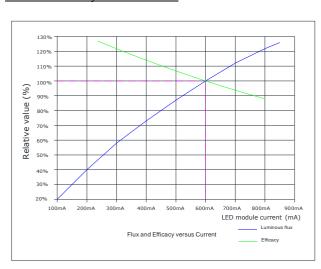
For example: EFC-022-600mA drive of 2pcs parallel 300mA modules

or 1pcs 600mA modules

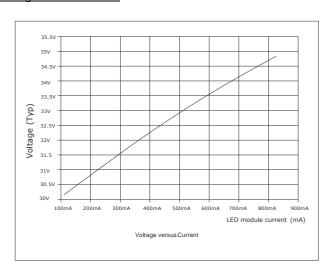


LED drivers EFC-022 for 2P x300mA =600mA

#### Flux and Efficacy versus Current



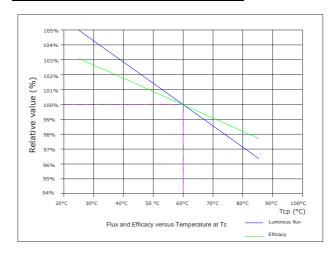
### Voltage versus Current



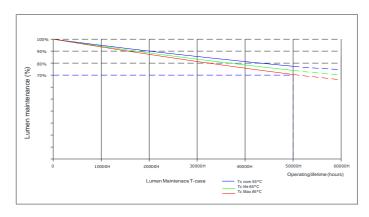
MODEL: RX-BKT57-56025

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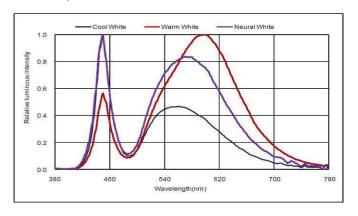
#### Flux and Efficacy versus Temperature at Tc



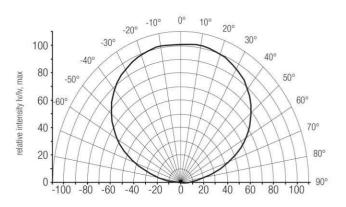
#### Lumen Maintenace T-case



#### Relative spectral emission



#### **Light distribution**



# Thermal design and heat sink

The rated life of products depends to a large extent on the temperature. If the permissible temperature limits are exceeded, the life of the umodule will be greatly reduced or the umodule may be destroyed.

Tc point, ambient temperature and lifetime

The temperature at tp reference point is crucial for the light output and life time For umodule a tp temperature of 65 °C has to be complied in order

to achieve an optimum between heat sink requirements, light output and life

Compliance with the maximum permissible reference temperature at the to point. must be checked under operating conditions in a thermally stable state.

The maximum value must be determined under worst-case conditions for the

The tc and tp temperature of LED modules from are measured at the same reference point (Tcp)

# Heat sink values

Reference

**Amhient** 

Temperature Ta	point Tp	current	Rth, hs-a	Cooling area
25 °C	40 °C	300mA	self cooling	
35 °C	50 °C	300mA	self cooling	
45 °C	60 °C	300mA	self cooling	
55 °C	65 °C	300mA	self cooling	
25 °C	65 °C	600mA	self cooling	
35 °C	65 °C	600mA	2.2K/W	291 cm <sup>2</sup>
45 °C	65 °C	600mA	0.37K/W	1792 cm <sup>2</sup>
55 °C	65 °C	700mA		

Forward

## **Notes**

relevant application.

The actual cooling surface can differ because of the material, the structural shape, outside influences and the installation situation. Depending on the heat sink a heat conducting paste or heat conducting film might be necessary to keep the specified tp temperature.



# LED module - LED light engine / OLED - LED linear/area 560x25mm 2200Lm

MODEL: RX-BKT57-56025 Http: www.xinelam.com

### Mounting instruction

None of the components of the umodule (substrate, LED, electronic components etc.) may be exposed to tensile or compressive stresses.

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 maylead 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), Cchlorine (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 long time.