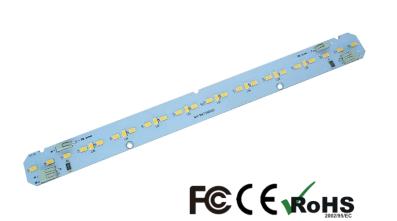


MODEL: RX-BKT57-28025

Description: RX-BKT57-28025, LED module / Small-sized LED umodule- Ideal for linear and panel lights. Combined LED module for general and emergency lighting. Integrated separate emergency LEDs controlled by EM power LED (2~4 W version). 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. For a variety of lighting.



CRI: > 80 3000K/4000K/6000K Up to 145Lm/W 4.72W 685Lm 10W 1210Lm

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Size

280x25mm 22LED + 8 EM LEDs Emergency LEDs

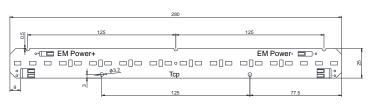
Integrated separate

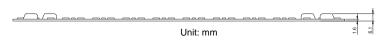
<u>Warranty</u>

3 years

Safe and reliable

Low Voltage Input(31V~35V)





Application specs	
LED module Brightness	NW: 685Lm@4.72W; 1210Lm@10W
EM LED Brightness	NW: 265Lm@2.1W
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	4.72W @150mA; 10W@300mA
Input	DC31.5V@150mA; DC33.5V@300mA
Interconnect connection	Max 4pcs @300mA 8pcs@150mA
Certification	CE RoHS FCC
Life-Span	>50000hours

Technical Data:

Part Number	Dimensions	ССТ	LED	Luminous	Forward	Test	Power	Efficacy	Тср
Fait Number	Net weight	CCI	QTY	flux Typ	VoltageTyp	Current	Тур	Тур	Test
DV DVTF7 20025 CW				651Lm	31.5V	150mA	4.72W	138Lm/W	35°C
RX-BKT57-28025-CW	60	6000~6500K	11s 2p	1130Lm	33.5V	300mA	10W	113Lm/W	65°C
EM PowerLED			22pcs	256Lm	6V EMP	350mA	2.1W	122Lm/W	37°C
DV DVTEZ 00005 NIM	280x25mm 35q 3800~4250		+	685Lm	31.5V	150mA	4.72W	145Lm/W	35°C
RX-BKT57-28025-NW		3800~4250K	EM	1210Lm	33.5V	300mA	10W	121Lm/W	65°C
EM PowerLED	33 <u>9</u>		LEDs	265Lm	6V EMP	350mA	2.1W	126Lm/W	37°C
DV DVTET 00005 MIN		2800~3200K	2s 4P	660Lm	31.5V	150mA	4.72W	140Lm/W	35°C
RX-BKT57-28025-WW			8pcs	1150Lm	33.5V	300mA	10W	115Lm/W	65°C
EM PowerLED				260Lm	6V EMP	350mA	2.1W	123Lm/W	37°C

Note: Beam characteristic120 °, Ripple max. 15 % of typ. forward current; Max. permissible surge current: 0.7 A, duration max. 10 µs Tolerance range for optical and electrical data: ±10 %.



LED module - LED light engine / OLED - LED linear/area 280x25mm 2200Lm

MODEL: RX-BKT57-28025

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Maximum Rated Values		
Part Number	Forward Current	Forward Voltage
RX-BKT57-28025	350mA	34.1V@350mA
EM PowerLED	600mA	6.3V@600mA

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

Standard Driver Options

	Low brightness	High brightness
	145Lm/W	121Lm/W
EFC-09 170mA	1S/7.5W	
EFC-09-300mA	2P/12W	1S/13W
EFC-022-600mA	4P/21W	2P/23W
HLG-40H-36	6P/40W	3P/45W

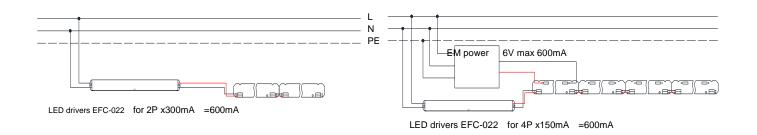
Part Numbering

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

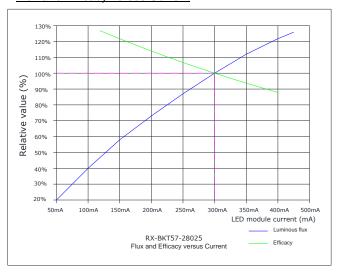
Where 1S = 1 Module, 4P is 4 Module in parallel etc; Power includes drivers consumption

For example: EFC-022-600mA drive of 4pcs parallel 150mA modules

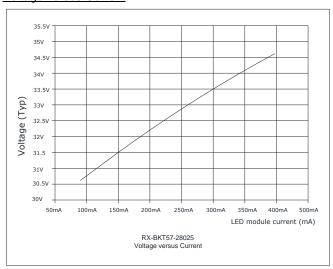
or 2pcs 300mA modules



Flux and Efficacy versus Current

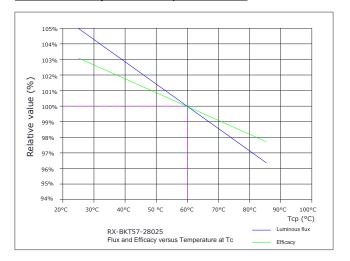


Voltage versus Current



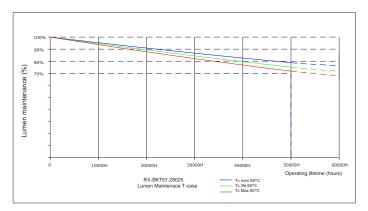


Flux and Efficacy versus Temperature at Tc



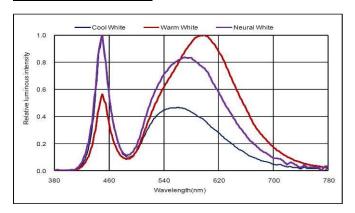
Lumen Maintenace T-case

MODEL: RX-BKT57-28025

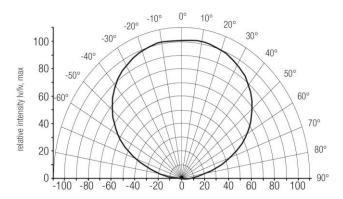


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Relative spectral emission



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 time.

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 relevant application.

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

Heat sink values

Ambient Temperature Ta	point Tp	current	Rth, hs-a	Cooling area
25 °C	35 °C	150mA	self cooling	
35 °C	35 °C	150mA	self cooling	
45 °C	55 °C	150mA	self cooling	
55 °C	65 °C	150mA	6.0 K/W	111 cm ²
25 °C	65 °C	300mA	6.0 K/W	111 cm ²
35 °C	65 °C	300mA	4.5 K/W	149 cm ²
45 °C	65 °C	300mA	2.9 K/W	227 cm ²
55 °C	65 °C	350mA		

Notes

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 280x25mm 2200Lm

MODEL: RX-BKT57-28025 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 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), 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

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.