obchod@dencop.cz | +420 571 894 000 export@dencop.cz | +420 571 894 001

ACP BOND | PLEXIGLASS | PET G | PVC | LED MODULES | LED STRIPS | MEAN WELL | NEON

# Technical data

**CODE:** 

551313/556313/554313/552313/553313/558313

**PRODUCT:** 

LED MODULE DX3-3

**NOTE:** 

TECHNICAL DATA

**IMAGE:** 



**LAST UPDATE:** 

9/2021





# LED MODULE DX3-3





RoHS

2835 SMD 3 LEDS

Injection Lens DC 12V

65

3 years

#### **Model D165-3**

3 pcs 2835 SMD LEDs, 70 x 16 x 6 mm, white shell, equipped with optical devices, injection series, 12 V DC, constant current, LED module

#### **Features:**

- · Unique hard-edged shape, high-end and elegant
- 2835 SMD LED with low attenuation and long life
- Standard cascading qty up to 50 pcs
- Beam angle 160°
- · Can be cut between every unit
- · CE, RoHS compliant

#### **Applications**

Optimal for 8 - 12 cm depth channel letter

## Warranty

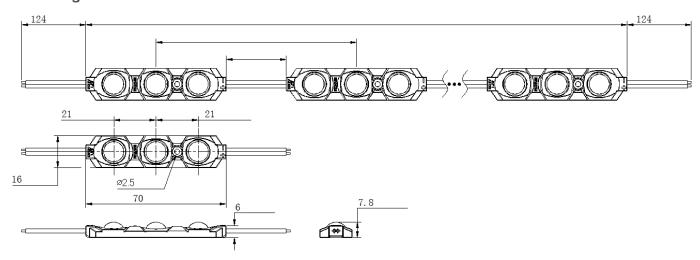
5 years or 22 000 hours, whichever comes first

Model	551313	556313	554313	552313	553313	558313
LED color	Pure white	Pure white	Red	Green	Blue	Yellow
CCT (K)/ WL (nm)	7000 K	4000 K	620 - 625 nm	525 - 530 nm	465 - 470 nm	585 - 590 nm
CRI	≥ 75	≥ 75	-	-	-	-
SDCM	-	-	-	-	-	-
Beam angle	160°	160°	160°	160°	160°	160°
Luminous flux	92 lm	87 lm	27 lm	53 lm	10 lm	23 lm
Luminous efficacy	128 lm/W	120 lm/W	38 lm/W	74 lm/W	14 lm/W	32 lm/W
Working voltage	12 VDC	12 VDC	12 VDC	12 VDC	12 VDC	12 VDC
Working current	60 mA	60 mA	60 mA	60 mA	60 mA	60 mA
Power	0,72 W/pcs	0,72 W/pcs	0,72 W/pcs	0,72 W/pcs	0,72 W/pcs	0,72 W/pcs
IP grade	IP65	IP65	IP65	IP65	IP65	IP65
Operating temperature °C	-25 ~ +60°C	-25 ~ +60°C	-25 ~ +60°C	-25 ~ +60°C	-25 ~ +60°C	-25 ~ +60°C
Operating temperature °F	-13 ~ +140°F	-13 ~ +140°F	-13 ~ +140°F	-13 ~ +140° F	-13 ~ +140° F	-13 ~ +140°F
Storage temperature °C	-25 ~ +70°C	-25 ~ +70°C	-25 ~ +70°C	-25 ~ +70°C	-25 ~ +70°C	-25 ~ +70°C
Storage temperature °F	-13 ~ +158°F	-13 ~ +158° F	-13 ~ +158°F			
Standard cascading qty	50 pcs	50 pcs	50 pcs	50 pcs	50 pcs	50 pcs
Single-ended max. cascading qty	25 pcs	25 pcs	25 pcs	25 pcs	25 pcs	25 pcs
Double-ended max. cascading qty	50 pcs	50 pcs	50 pcs	50 pcs	50 pcs	50 pcs
Weight (g/piece)	9,93 g/pcs	9,93 g/pcs	9,93 g/pcs	9,93 g/pcs	9,93 g/pcs	9,93 g/pcs
Weight (lb/piece)	0,022 lb/pcs	0,022 lb/pcs	0,022 lb/pcs	0,022 lb/pcs	0,022 lb/pcs	0,022 lb/pcs

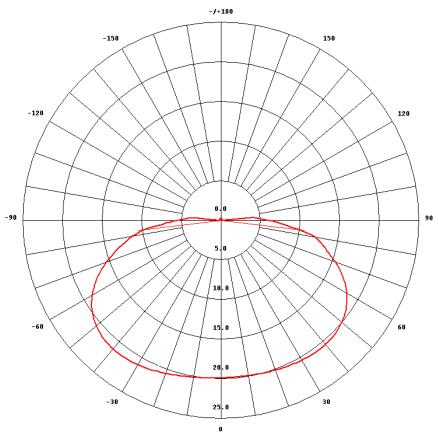
#### Notes

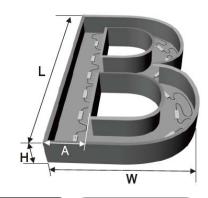
- (1) Testing environment temperature: 25±2°C (77±3,6°F)
- (2) The actual data of each single product may differ from above typical data witch are subject to change without prior notice
- (3) The above "--" means the parameters are not required temporarily





# **Light distribution**





# **Layout data**

	Chanr	nel letter			Surface		
Main width A (mm)	Main thickness H (mm)	Size L*W (mm)	Area (m²)	Max. arrangement spacing (mm)	Total qty (pcs)	Installing density (pcs/m²)	illuminance range (lux)
85	80	650 x 320	0,14	100	14	99	4 700 - 5 600
115	100	850 x 425	0,25	135	15	59	3 400 - 4 000
140	120	1040 x 505	0,37	185	14	38	2 300 - 2 700

#### Notes

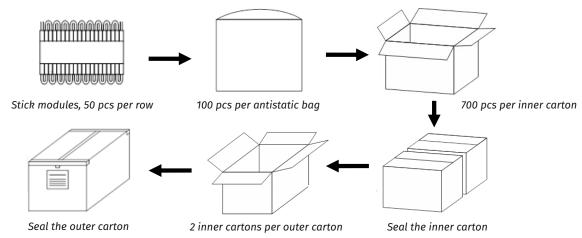
- (1) The above data is tested from the modules with color temperature of 9 000 K  $\,$
- (2) The above light box uses acrylic white board with 3 mm depth and 54,4% light transmittance
- (3) The above illuminance is the minimum value tested on the even surface
- (4) The above data is for reference only



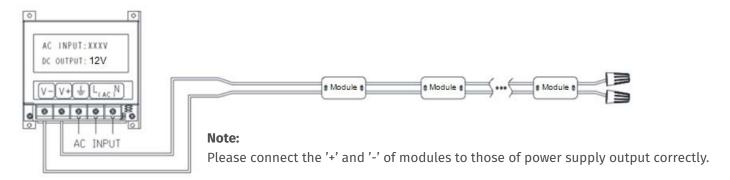
# **Packaging information**

	Otv	Oty	Total		Total weight							Outer carton						
P/N	(pcs/bag)	(bag/ carton)	qty	qty		Total Weight			Length			Width				Height		
	(100) 203/	(aug, curton,	(pcs)		kg	ll l	)	mm		inch		mm		inch		mm	in	ch
DX3-3	100	14	1 400		15,92	35	,1	528	2	20,78		376		14,8		272	10	),7

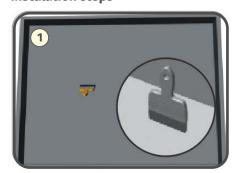
# **Packaging diagram**



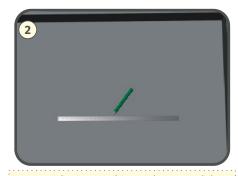
# **Connection instruction**



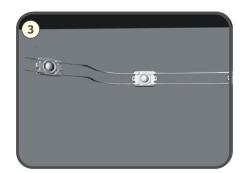
## **Instalation steps**



Clean the mounting surface

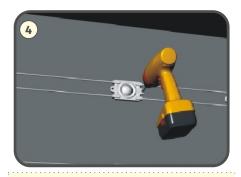


Determine the installing position for modules and the needed qty. Make sure to install it in the middle

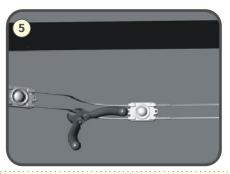


Peel off the release paper of double-sided adhesive tapes, then, stick modules on the installing surface for preliminary mounting



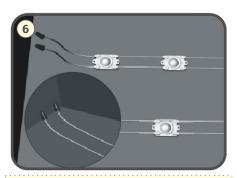


Adjust the modules to the best position, press the double-sided tape tightly and then fix by screws

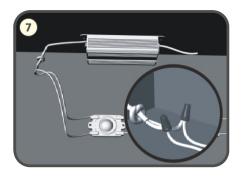


Cut off the modules to the desired qty, and peel off the insulation skin of wires about 10 mm

**Note:** Please cut from the middle of wires between modules



When the wires exposed in the last module, please peel off the insulation skin of wires about 10 mm each, then, screw in terminals respectively, and dispose with waterproof, insulation protection



Please ensure that the '+' and '-' of the wires of modules are connected with those of power supply correctly, and dispose with waterproof, insulation, anti-circuit and anti-corrosion protection.



# **Troubleshooting**

MALFUNCTIONS	POSSIBLE CAUSES	SOLUTIONS							
	<b>1.</b> The power supply did not connect to power grid	Power on							
All LEDs don't work	2. The electricity due to short-circuit of external power supply	Remove the malfunction caused by short-circuit, power on again							
	3. The wires of module connect to power supply output reversely	Check the connecting and ensure the wires are connected correctly							
	<b>1.</b> Part of power supplies do not have output	Check the power supply system							
Part of LEDs don't work	<b>2.</b> Part of module wires have malfunction	Check the power supply system							
	<b>3.</b> Particular module connected reversely	Correct connection							
Brightness of LEDs is weak or uneven	<b>1.</b> Overloaded power supply	Replace it with higher power supply							
	2. The power loss of power circuit is huge or the power loss of each circuit existing big difference	Ensure working voltage of is within ±5%V of rated voltage  1. Shorten the length of wires between the first module and power supply or replaced with wires with bigger diameter; 2. Ensure the cascading qty of string is less than or equal to the allowed maximum cascading qty, and each module cascading qty is well-balanced							
	<b>3.</b> Exceed in qty of modules in series	Lessen the cascading qty for module and ensure the qty for each electrical circuit is within the maximum cascadin qty.							
Brightness of LEDs	<b>1.</b> Poor contacted in the joints	Find out and tackle malfunction immediately							
is weak or uneven	<b>2.</b> Failures in power supply	Replace power supply							

#### **Declaration**

- If the external flexible cable of light box is damaged, please replace it by its manufacturer or its service agent or qualified person to avoid a hazard.
- The specific installation and cautions please refer to the user manual.
- The given data in this specification is based on our standard product. There may be existed slight difference compared with actual products.
- All Illustrations in this specification are for reference only.
- This product is subject to change or modify without prior notice.
- DENCOP reserves the right of final explanation for this specification.