

## ST-12V COB

ST01-CA12036W12V

ST01-CA12036R12V

ST01-CA12036G12V

ST01-CA12036B12V

ST01-CA12036A12V



## Product Brief

### Features And Benefits

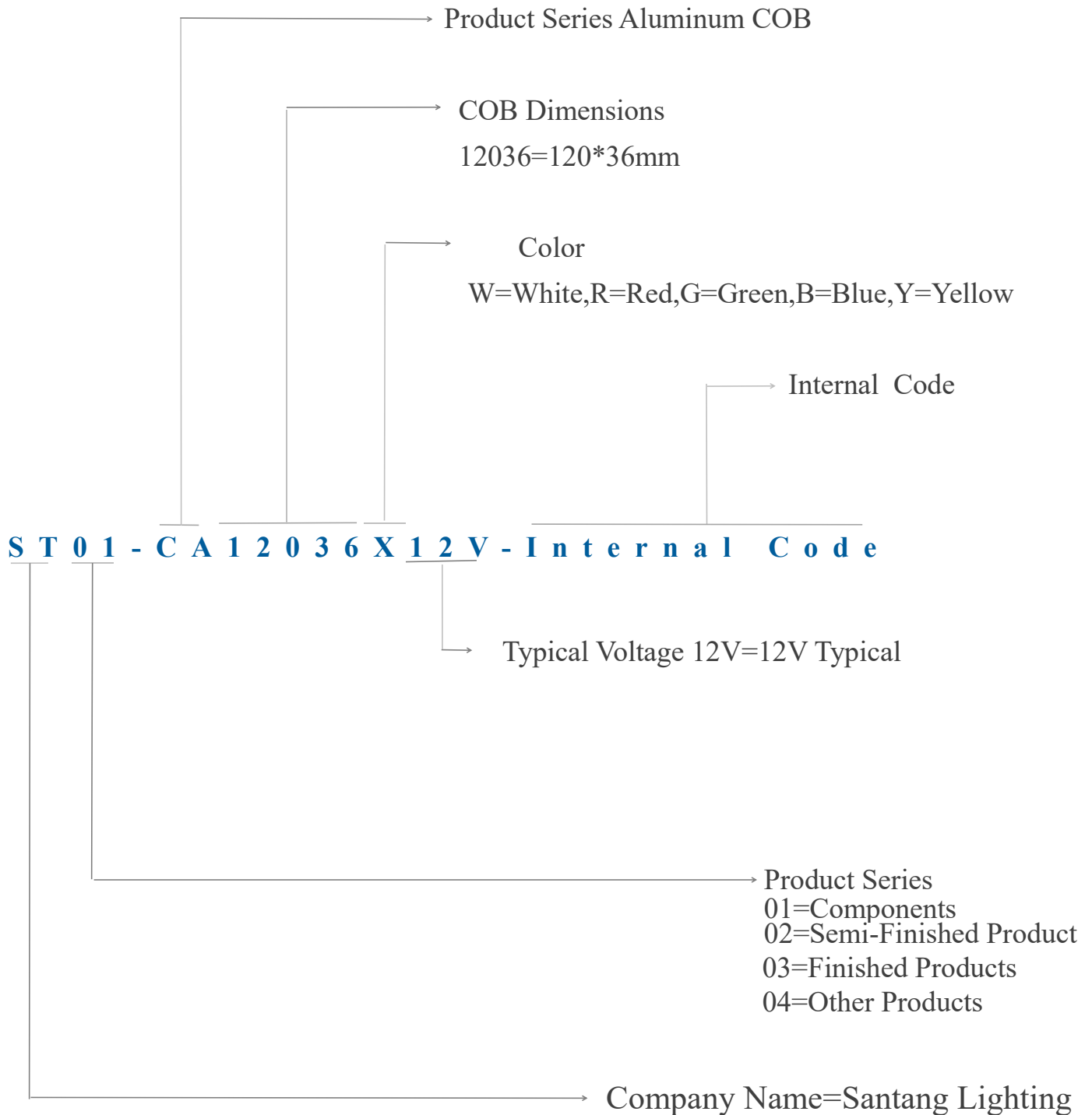
- 12VDC output voltage
- Flip Technology
- Strip COB
- Voltage, Colors, Dimensions can be customized
- Unique Design only for your idea

### Application

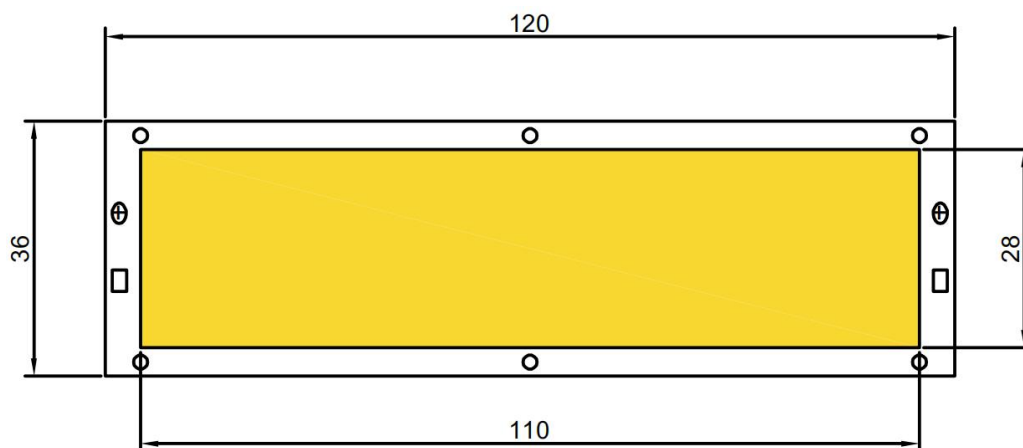
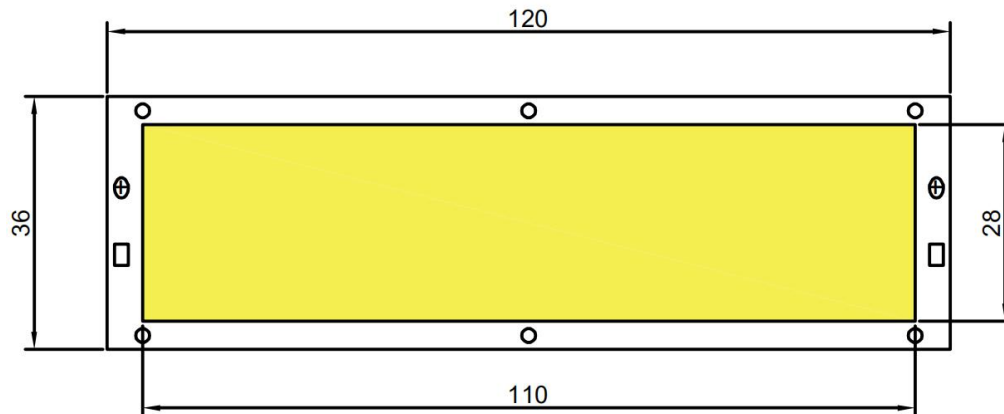
- Closet Light, Table Light
- Work Light, Camera Light
- Any Batteries & Solar Panel Applications
- DC output customized applications
- Others

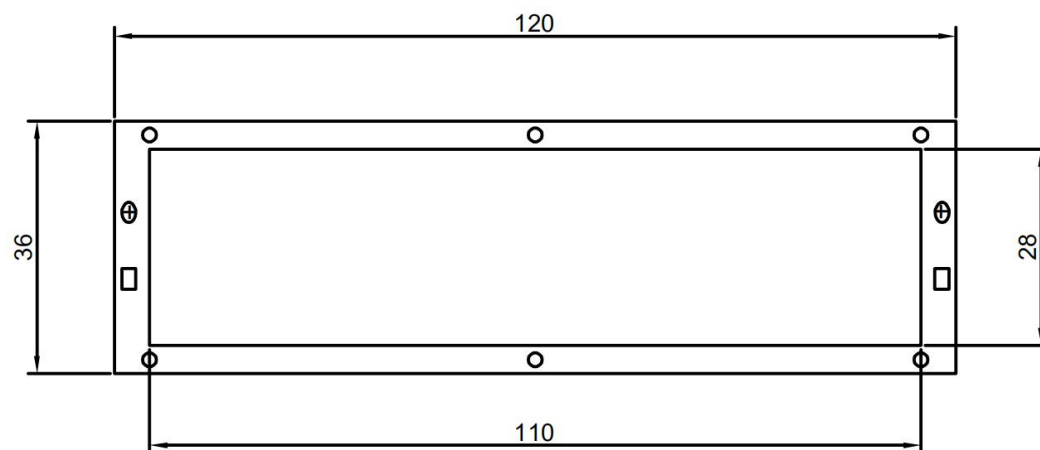
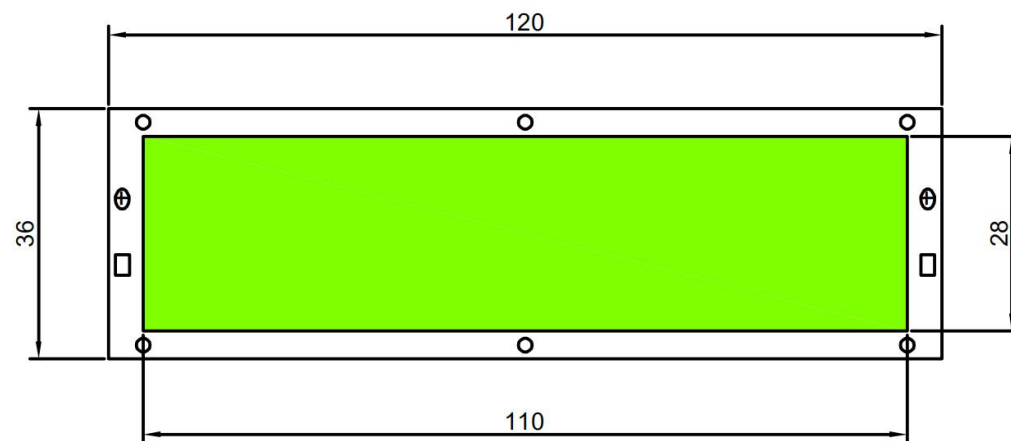
## 1.Part Number Nomenclature

*Part Numbers For ST-12V COB Follow The Convention Below:*



## 2.Outline Dimensions





Notes:

1. Drawings are not to scale.
2. All dimensions are in millimeters.
3. Tolerance:  $\pm 0.20\text{mm}$ .

### 3. Absolute Maximum Ratings

*Absolute Maximum Ratings For ST-12V COB*

PARAMETER	SYMBOL	TYPICAL PERFORMANCE
Power Dissipation	$P_D$	20.8W
Forward Current	$I_F$	1600mA
Peak Forward Current	$I_{FP}$	2000mA
Junction Temperature	$T_j$	110°C
Operating Temperature Range	$T_{opr}$	-30 ~ +80°C
Storage Temperature Range	$T_{stg}$	-40 ~ +80°C
ESD Sensitivity(HBM)	--	2000V
Hand Solder Temperature		350±20°C/3~5sec

Note: \*Pulse width≤0.1msec Duty ratio≤1/10

### 4. Electrical -Optical Characteristics ( $T_A=25^{\circ}\text{C}$ )

Color	Dimensions (mm)	Group	Min.Luminous Flux (lm)	Max.Luminous Flux(lm)	Forward Current (mA)	Forward Voltage (V)
Cool White 5000-8000K	120*36mm	DO	2288	2698	1600mA	13V
Natural White 3500-5000 K	120*36mm	DO	2288	2698	1600mA	13V
Warm White 2700-3500 K	120*36mm	DO	2080	2496	1600mA	13V
RED Phosphor Type	120*36mm	DO	832	1248	1600mA	13V
GREEN Phosphor Type	120*36mm	DO	1664	2078	1600mA	13V
AMBER Phosphor Type	120*36mm	DO	1872	2288	1600mA	13V
BLUE	120*36mm	DO	416	624	1600mA	13V

Note:

1. tolerance  $\Phi_v$ : ±100 LM.
2. Any Dimensions can be customized.

## 5.Packing

### Label

Model-Model Number

Name: 12V COB

Power-Wattage

IF-Forward Current

VF-Range Of Forward Voltage

IV  $\Phi_v$ -Range Of Luminance/Lumen

CCT-Correlated Color Temperature

QTY--(Quantity)

SHENZHEN SANTANG LIGHTING CO., LTD.			
Model			
Name		Power	
IF		VF	
IV $\Phi_v$		CCT	
Ra		QTY	
2019-01-01			

### Package



PACKING	DETAILS		
	PAD	BAG	BOX
QTY	-	-	-

## 6. Legal and additional information.

### About Shenzhen SanTang Lighting Co.,Ltd.

SHENZHEN SANTANG LIGHTING CO., LTD. (hereafter called ST) is the integration of Independent R&D, Production, and Brand agency which is dedicated to providing LED devices and LED solutions for small and medium enterprises (SME).

Main products are widely used in outdoor lighting, commercial lighting, grow lighting, and other special lighting fields which are included three parts with Customized Module Series (DC/AC PCBA, DC/customized size COB), General Lighting Series (COB, HIGH POWER LED, SMD) and Special lighting Series(UV,IR,GROW LIGHT), and the products have been exported to Europe, Middle-East, East-South Asia and South & North America.

OEM/ODM inquiries will be warmly accepted by ST company with its great abilities of product innovation and supply chains management, we are all committed to focusing on LED light-emitting devices fields and going forward hand in hand with each partner in the best way “Hit The Lights Together”!

### Shenzhen SanTang Lighting Co., Ltd.

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