

# Specification Data Sheets

May 20th.2011 V 0

## Model No.: DG02 Series (T8 LED Tubes)

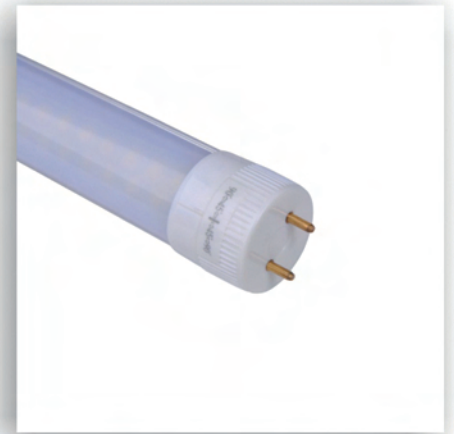
### Overview:

With the gradually short supply of energy, the increase of our awareness of energy conservation, and the globally requirements of reducing carbon emission, now all the people are working hard to take measures to reduce the energy consumption. As the major part of the energy consumption, the lighting industry also has its own mission.

With the growth and application of LED sources, the lighting industry is turning on a new page of energy saving. In office lighting and public construction lighting, the two major parts of lighting, the T8 fluorescent tubes are used the most. But the traditional T8 fluorescent tubes have many shortages, like a lot of heat emission, energy consumption and mercury pollution. In this case, it is needed urgently to replace these tubes with new solutions. Now our factory has invested to make our patented T8 LED tubes.

Compared with old versions, our new designed T8 LED tubes have wider beam angle, higher efficacy and multiple lengths (60cm/120cm/150cm/240cm)

With our patented structure design on the two ends, the bases can be adjusted 45°to 90°clockwise and anticlockwise. It overcomes the shortage LED light sources (directional feature), which brings a great convenient for the users to choose different light direction.



Patented Model

### FEATURES

- Patented design for rotatable socket.
- High polished and dustproof external surface.
- Built-in power supply and shielded solution. Qualified and safe for use.
- Wide beam angle. Soft light and no glare.
- ETL/CETL approved.
- Working temperature: -20°C~40°C. The lamp body temperature is 50°C(ideal temperature) when ambient temperature is 25°C.

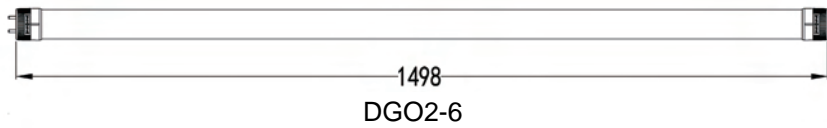
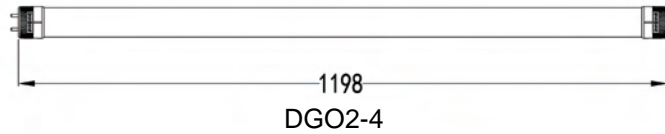
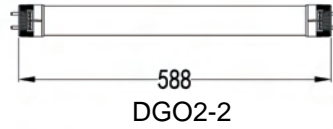
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## DG02series-Dimension Figures(Unit:mm.)



## DG02series-Product Figures(Patented Model )



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## DG02-4 - Photology Parameters

Item	Housing-Color	Color-Temperature	Kelvin Ranges		Lumen			Color Rendering Index	
			Minimum	Maximum	SMD 3528				SMD
G13	Bright-silver	Cool White	5500K	6000K	1800LM				>80
		Natural White	3800K	4500K	1780LM				>80
		Warm White	2700K	3300K	1760LM				>80

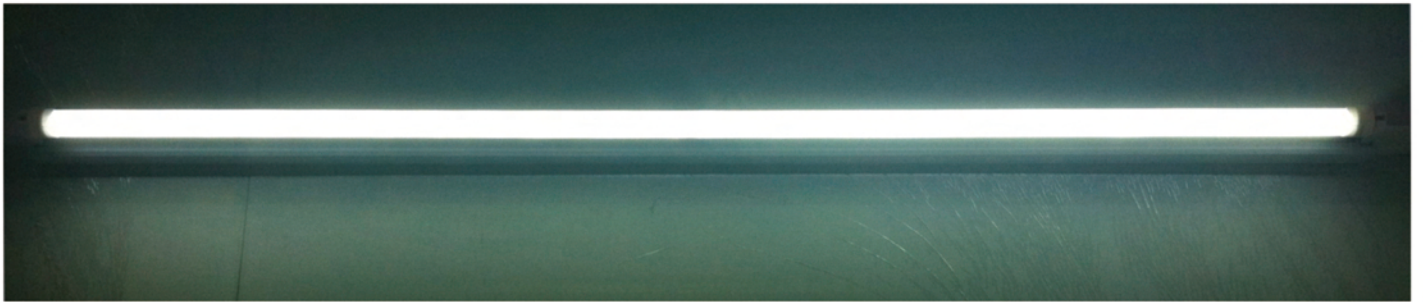
## DG02series-Electrical Parameters

Item		Input Volt	Power	PF	Efficiency	Ambient-Temperature	
0.6M SMD 3528	Cool White	120~277V /AC	10W	>0.9	>95LM/W	-20°C~40°C	
	Natural White	120~277V /AC	10 W	> 0.9	>95LM/W	-20°C~40°C	
	Warm White	120~277V /AC	10W	>0.9	>95LM/W	-20°C~40°C	
1.2M SMD 3528	Cool White	120~277V /AC	18 W	>0.9	>95LM/W	-20°C~40°C	
	Natural White	120~277V /AC	18 W	> 0.9	>95LM/W	-20°C~40°C	
	Warm White	120~277V /AC	18 W	>0.9	>95LM/W	-20°C~40°C	
1.5M SMD 3528	Cool White	120~277V /AC	24 W	>0.9	>95LM/W	-20°C~40°C	
	Natural White	120~277V /AC	24 W	> 0.9	>95LM/W	-20°C~40°C	
	Warm White	120~277V /AC	24 W	>0.9	>95LM/W	-20°C~40°C	

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DG02series-Photos of real light



Certifications:



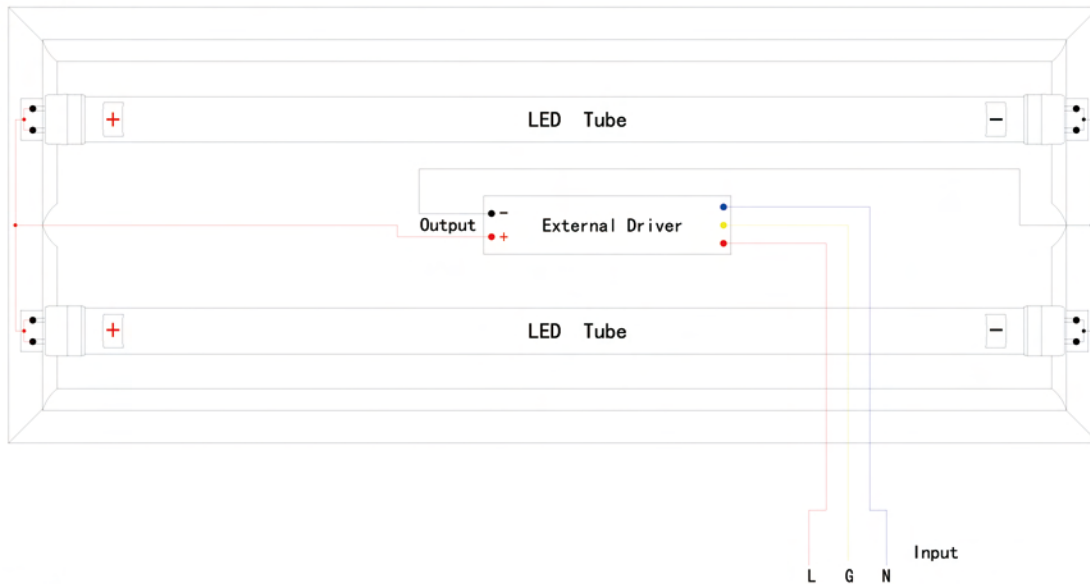
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## DG02series-User Instruction

### 1. Installation Instruction (External Driver)



### 2. Attentions



## DG02series-Packaging Description

Carton size (CM)	Weight (KG)	Quantity(PCS)
67×18×15	6	12
129×18×15	11	12
159×18×15	14	12
246×18×15	22	12

If your order quantity is less than the required quantity/carton, extra 5 US dollars will be charged for the filling stuffs.

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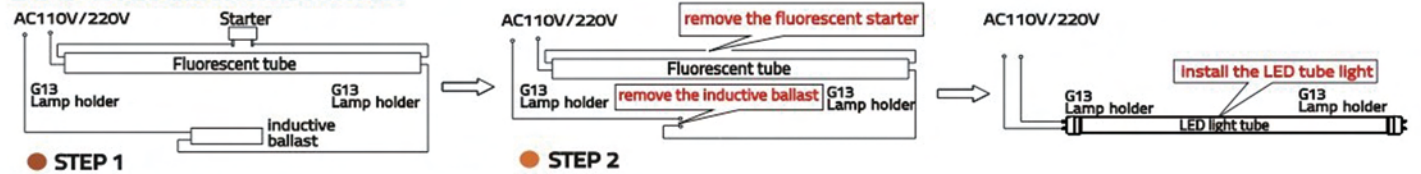
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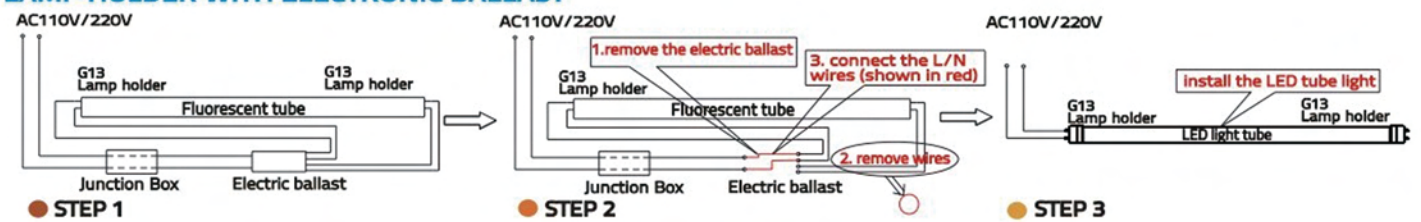
## DG02series-User Instruction

### 1. Installation Instruction (Internal Driver)

#### LAMP HOLDER WITH STARTER



#### LAMP HOLDER WITH ELECTRONIC BALLAST



### 2. Attentions



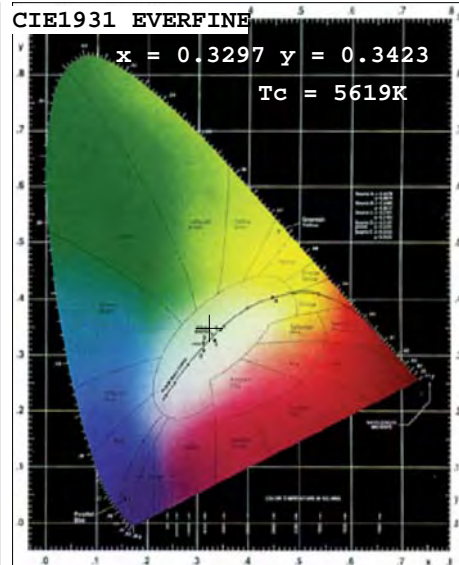
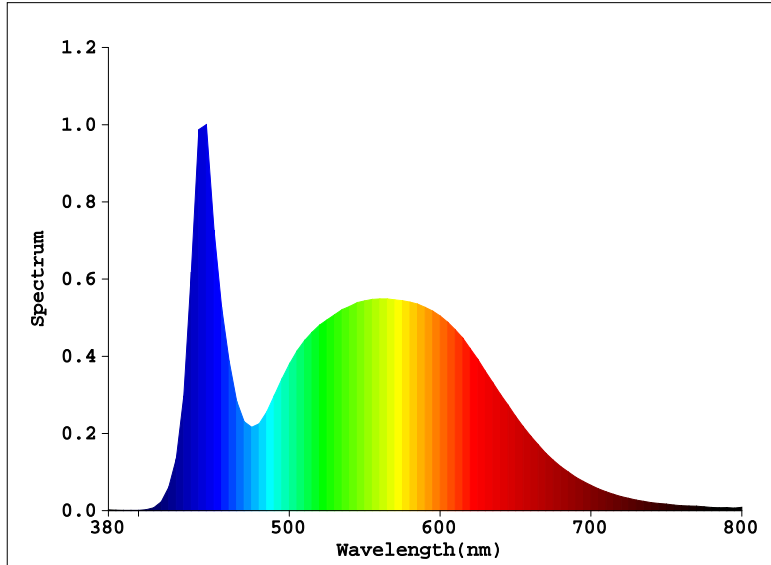
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Light Source Test Report



Color Parameters:

Chromaticity Coordinate:  $x=0.3297$   $y=0.3423$   $u'=0.2045$   $v'=0.4778$   
Tc=5619K Dominant WL:Ld=528.1nm Purity=1.9% Centroid WL:547.0nm  
Ratio:R=15.8% G=80.0% B=4.2% Peak WL:Lp=445.0nm HWL:22.8nm  
Render Index:Ra=81.6  
R1 =81 R2 =84 R3 =87 R4 =83 R5 =82 R6 =80 R7 =85  
R8 =70 R9 =9 R10=63 R11=84 R12=67 R13=81 R14=93 R15=76

Photo Parameters:

Flux: 1782.7 lm Fe: 5.7039 W Efficacy:97.84 lm/W  
LEVEL: WHITE:OUT

Electrical Parameters:

Luminaire: U=214.0V I=0.08865A P=18.22W PF=0.9604

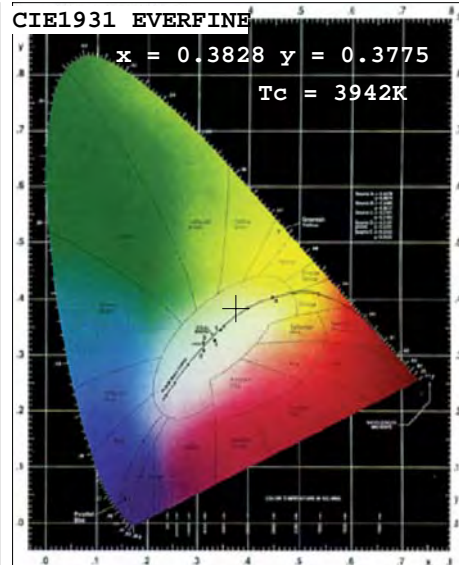
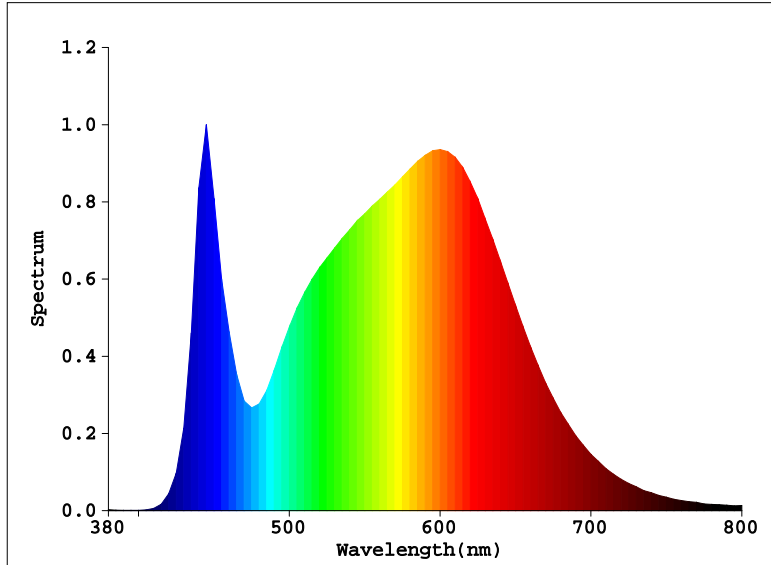
Instrument Status:

Scan Range:380.0nm-800.0nm Interval:5.0nm[0] Ip=18924(G=3,D=46)  
REF=30129(R=3) %=-0.260% PMT: 16.8 centigrade [15.5]

Product Type:DG0212-120/230V  
Number: CW  
Temperature:20 deg  
Test Operator:  
Software:V2.00.100

Humidity:60%  
Test Date:2012-02-28 13:38:31  
Instrument:PMS-50SSA\_V1 (SN:1008020)

Light Source Test Report



Color Parameters:

Chromaticity Coordinate:  $x=0.3828$   $y=0.3775$  /  $u'=0.2264$   $v'=0.5022$   
Tc=3942K Dominant WL:Ld=579.5nm Purity=28.2% Centroid WL:571.0nm  
Ratio:R=20.4% G=76.5% B=3.2% Peak WL:Lp=445.0nm HWL:23.1nm  
Render Index:Ra=84.7  
R1 =84 R2 =89 R3 =93 R4 =85 R5 =84 R6 =85 R7 =88  
R8 =70 R9 =20 R10=74 R11=85 R12=69 R13=85 R14=96 R15=78

Photo Parameters:

Flux: 1796.7 lm Fe: 5.5839 W Efficacy:98.96 lm/W  
LEVEL: WHITE:OUT

Electrical Parameters:

Luminaire: U=215.4V I=0.08878A P=18.16W PF=0.9493

Instrument Status:

Scan Range:380.0nm-800.0nm Interval:5.0nm[0] Ip=12349(G=3,D=46)  
REF=30612(R=3) %=0.125% PMT: 16.8 centigrade [15.7]

Product Type:DG0212-120/230V  
Number:NW  
Temperature:20 deg Humidity:60%  
Test Operator: Test Date:2012-02-28 13:41:05  
Software:V2.00.100 Instrument:PMS-50SSA\_V1 (SN:1008020)