## **ECOSTAR LED LAMP ITEMS**

For more energy-saving & cost reduction...



# Eco★ ECOSTAR CO., LTD.

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Web Page: http://www.ecostar.co.jp/



### Several Benefits of Replacing with our LED lamps...

#### → !! Super energy-efficient & cost-saving alternative !!

• Our LED lamps need only about <u>1/10 (or less than that)</u> of electricity for emitting the same grade effective light when compared with the conventional incandescent light sources!! Also, the electricity consumption of our LED lamp is only <u>1/3</u> of the general fluorescent lamps.

#### → !! The longer lasting running life ever !!

- The life time of LED lamps can last for about 40,0000 hours!! (About 20 to 40 times longer life than the conventional incandescent light bulbs and 4 times longer than the general fluorescent lamps!)
- About 13 years continuous use is possible with no need for replacement and repairing on the assumption that the LED lamps are used for 8 hours a day.

#### → !! Effective countermeasure against the global warming !!

 About 956kg of CO2 is emitted by using 2 units of general fluorescent tube lamps (36W each) for 40,000 hours, while in contrast using 2 units of LED tube lamps (18W each) emits only 478kg of CO2 on the same condition. Replacing your existing lamps with our LED lamps contributes greatly to the prevention of global warming!

#### → !! Environmentally friendly and easily disposed !!

•Our LED tube lamp contains no environmentally harmful substances such as mercury, lead, and cadmium and is non-hazardous to human body. LED tube lamps are easily disposed as non-flammable waste, while on the other hand the conventional fluorescent tube lamps mostly needs the special disposal treatment for proper removal of mercury.

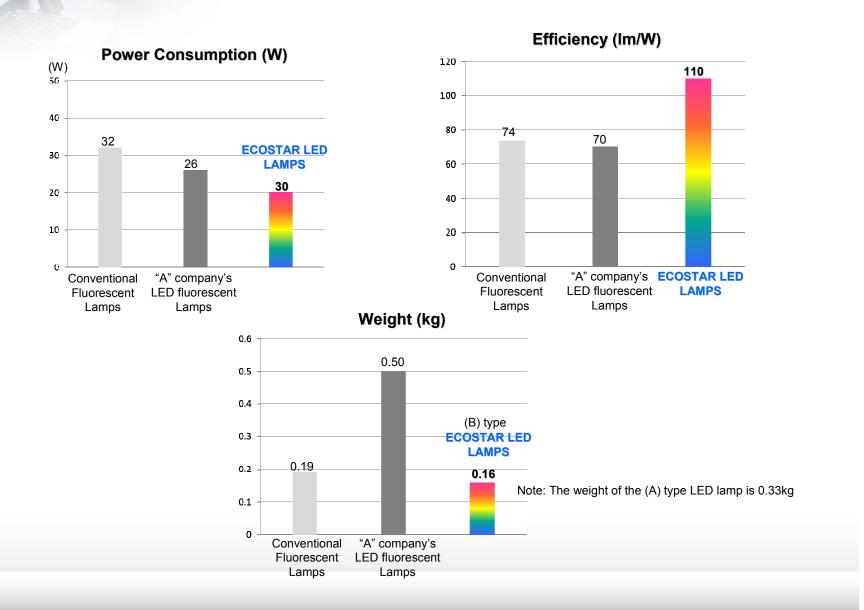
In addition, the minimized emission of UV light prevents the incest gathering around the LED lamp and causes no damage & degradation to the light-exposed objects such as raw foods on the store display, artistically precious exhibits (antiques), and etc.

#### → !! Lower heat emission !!

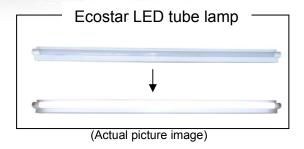
•LED lamps emit much less heat than the conventional incandescent & fluorescent lamps and help reducing the cost for air-conditioning.

#### → !! Instant switching !!

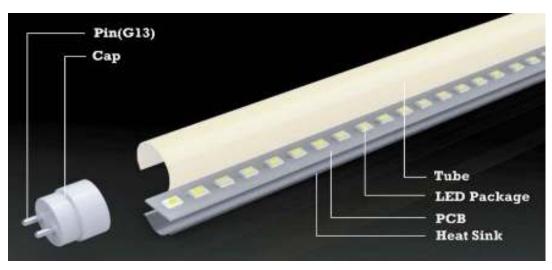
•The LED lamps emit the light to their full brightness instantly after switching-on, while the widely used mercury lamps installed at the warehouse and the factory take quite a long time to become bright causing the loss of work efficiency.



## Ecostar LED tube lamp -- Product details --



Size Weight Power Consumption Input Voltage Color Temperature	(mm) (kg) (W) (V) (Kelvin)	W(26) X L(1,200) X H(26) 0.33 20W 90 - 250V, 50 - 60HZ W(3,000k), P(6,000k)
Input Voltage	(V)	•
Efficiency	(Merviri)	110lm/W, 2,000 – 2,400lm



Internal components of Ecostar LED tube lamp

## Ecostar LED tube lamps -- Specifications --

# SPECIFICATIONS OF ECOSTAR MAIN MODELS

	600mm	1,200mm	2,400mm
	EC-I	EC-I	EC-I
LED chip	Epivally	Epivally	Epivally
LED fluorescent maker	ILJIN	ILJIN	ILJIN
LED package maker	ILJIN	ILJIN	ILJIN
LED device	60	120	240
Package spec	5,450	5,450	5,450
Size	580mm	1,198mm	2,367mm
Diameter	$\phi$ 26	$\phi$ 26	$\phi$ 26
Сар	G13	G13	R17D
Intensity of irradiation	240	240	240
Color temperature	5,500K	5,500K	5,500K
Electricity consumption (W)	12W	21W	48W
Lightspeed	1,200	2,100	4,800
Lighting efficiency	>84	>84	>84
Illuminance	240	590	1,130
Color rendering	>70	>70	>70
Power factor	>94	>94	>94
Voltage	90V-250V	90V-250V	90V-250V
Frequency	50/60HZ	50/60HZ	50/60HZ
Operating temperature	−25°C~50°C	−25°C~50°C	−25°C~50°C
Storage temperature	−25°C <b>~</b> 40°C	−25°C <b>~</b> 40°C	−25°C <b>~</b> 40°C
Weight (g)	160g	280g	660g
Life time	50,000hrs	50,000hrs	50,000hrs
LED warranty period	5年	5年	5年
SMPS warranty period	3年	3年	3年
Covering material	PC(poly carbonate)	PC(poly carbonate)	PC(poly carbonate)
Heat sink material	AL	AL	AL
Waterproofing	N/A	N/A	N/A

# -- Past Time Sales Records 1 (ECOSTAR LED tube lamps) --

Item No.	Customer:	Date of installation:	Location:
EC-I		2009.12	SHINJYUKU BUILDING
		2010.04	SHIMOJIMA BRIDAL BOX EAST
		2010.04	MORINO MIYAKO SHINKIN BANK (IWAKIRI BRANCH)
		2010.05	Atelier of the great painter "Kinutani Kouji"
		2010.05	KAN MOTOR POOL
		2010.06	Commemorative Organization for the Japan world Exposition '70
		2010.06	Parking lot of Sendai Park heights "NIKENCYAYA"
		2010.06	Airport Terminal in SAGA airport
		2010.07	Super Center Trial HIDA store (Supermarket warehouse in Oita prefecture)
	LOTTE	2009.03	Logistics Center
	LOTTE	2009.08	Construction
	LOTTE	2009.05	7-ELEVEN
	LOTTE	2009.04	Super Chain
	LOTTE	2010.01	LOTTERIA warehouse

# -- Past Time Sales Records 2 (ECOSTAR LED tube lamps) --

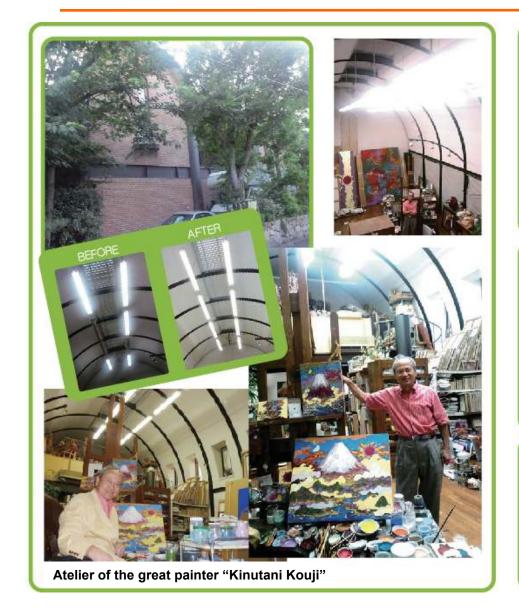
Item No:	Customer:	Date of Installation:	Location:
EC-I	LOTTE	2010.05	Hospital Association
	Seoul Metro	2010.02	Seoul Station
	Seoul Metro	2010.05	Jamsil Station
	Seoul Metro	2010.04	Jongno Station
	Seoul Metro	2010.02	Subway

## Pictures Images "ECOSTAR LED tube lamps" installed in domestic buildings in Japan!





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Super Center Trial HIDA store (Supermarket warehouse in Oita prefecture)

## Pictures Images "ECOSTAR LED tube lamps" installed in domestic buildings in Japan!

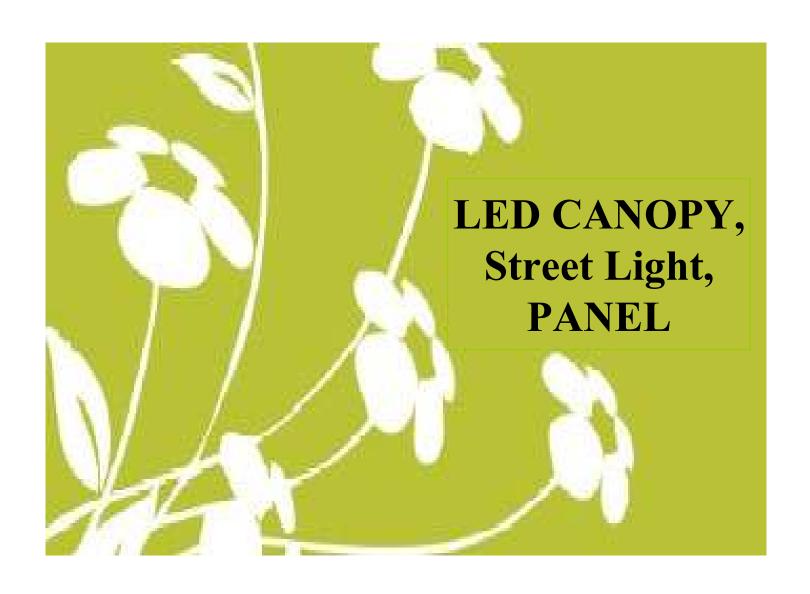








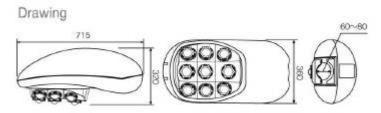
(Shinjuku Diamond Palass)



Street Light / Standard Height: 10 ∼12mm

\* Patent Product & Public Procurement Service Total Shopping Mall Enrollment Product \*





Item:		Specifications	
Model:		SE-STA60	
Ma	terial:	AluminumAlloy	
Total	CW(6,000K)	10,000 lm	
Luminous	CW(4,000K)	6,800 lm	
energy	CW(2,400K)	5,780 lm	
View	/ Angle:	120°	
Exter	nal Size:	L715xW360xH320mm	
LED	Chip:	CREE. OSRAM	
Voltage:		AC100~240V50/60Hz	
Power Consumption:		130W	
Waterproof Grade:		IP66	
CRI In	dex (RA):	>70	
Using Temperature:		-40 <b>~</b> +50°C	
We	eight:	15Kg	
Pakir	ng Unit:	1Set/1Box	
Application:		Street light(Park, Side walk)	

\* The same models with its power consumption of 30 W,50W,70W, and 90W are also available.



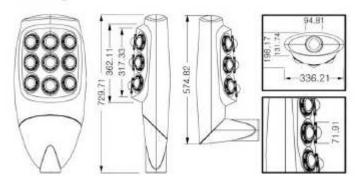
Street Light / Standard Height: 10 ~12mm

**Utility Model Patent Product** 

Street light: Brand new model developed in 2010



#### Drawing



Item:		Specifications	
М	odel:	SE-STB130	
Ma	nterial:	Aluminum Alloy	
Total	CW(6,000K)	10,200 lm	
Luminous	CW(4,000K)	8,700 lm	
energy	CW(2,400K)	7,300 lm	
View	/ Angle:	140°	
Exter	nal Size:	L729.71 × W336.21 × H198.17mm	
LEC	Chip:	CREE. OSRAM	
Voltage:		AC100~240V 50/60Hz	
Power Consumption:		130W	
Waterproof Grade:		IP65	
CRI Index (RA):		>75	
Using Temperature:		-40 <b>~</b> +50°C	
Weight:		12Kg	
Pakii	ng Unit:	1Set/1Box	
Appl	ication:	Street light(Park, Side walk)	

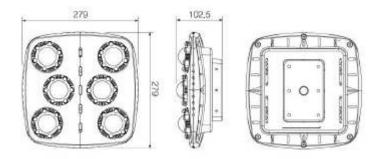
XThe same model with 30W power consumption is also available.

#### Gas Station & Canopy lamp / Height Standard: 10 ∼12mm

#### **Utility Model Patent Product**



•Public Procurement Service Total Shopping mall enrollment product



•	0 'C' '.'		
Item:	Specifications		
Model:	SE-CTA90		
Material:	Aluminum Alloy		
Color Temperature:	CW (Cool White@6,000K)		
	7,560 lm (Max)		
Lumen	6,480 lm (Typical)		
	6,120 lm (Min)		
View Angle:	100°		
Outer Dimension:	L279 × W279 × H102.5mm		
LED Chip:	CREE. OSRAM		
Voltage:	AC100~240V 50/60Hz		
Power Consumption:	90W		
Waterproof Grade:	IP65		
CRI Index (RA):	>70		
Using Temperature:	-40 <b>~</b> +50°C		
Storage Temperature:	−30 <b>~</b> +80°C		
Weight:	5.5kg		
Paking Unit:	1Set/1Box		
Application:	Celing Light (Gas station, Warehouse)		

<sup>\*\*</sup> LED module listening and patent registration product for light application.

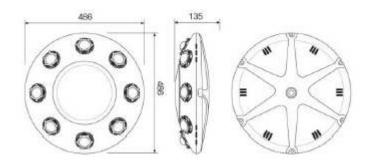
#### Sidewalk & Park light / Standard Height: 4.5 ∼6mm

#### **Utility Model Patent Product**



•Public Procurement Service Total Shopping mall enrollment product

#### Drawing



Item:	Specifications				
Model:	SE-VTB60 SE-VTB80 SE-VTB120				
Material:		AluminumAlloy			
Color Temperature:	CW (	Cool White@6,00	0K)		
		3,360 lm			
Lumen		6,480 lm			
		7,840 lm			
View Angle:		140°			
Outer Size:	L480	$6 \times W486 \times 135 m$	nm		
LED Chip:		CREE. OSRAM			
Voltage:	AC1	00 <b>~</b> 240V50/60	Hz		
Power Consumption:	60W	80W	120W		
Waterproof Grade:		IP65			
CRI Index (RA):		>70			
Using Temperature:	-40 <b>~</b> +50°C				
Storage Temperature:	−30 <b>~</b> +80°C				
Weight:	6kg				
Paking Unit:	1Set/1Box				
Application:	View light, S	treet light(Park,	Side walk)		

<sup>\*\*</sup> LED module listening and patent registration product for light application.

#### Solar Power Street Light / Standard Height: 4mm







Picture of "ECOSTAR Solar Power LED Lig ht" installed outside the building of Paju cit y hall in Korea. (Formerly, "Solar SE-CTA canopy light" was used for street lighting.

Item:	Specifications	
Name:	Solar Power Street Light	
Model:	ST-SO30C	
Luminous:	Power LED30W	
Light case Type	Square type with lens attached	
Number of Lamps	6EA	
Lapm Power Consumption:	30W	
Using Lamp:	Power LED	
Installation Type:	Tower type angka volt fix	
Material:	Stainless	
Power sort:	Battery DC 12V	
Number of Batteries:	DC 12V 200Ah	
Height	4mm	
Applications:	Street light (Park, sidewalk)	
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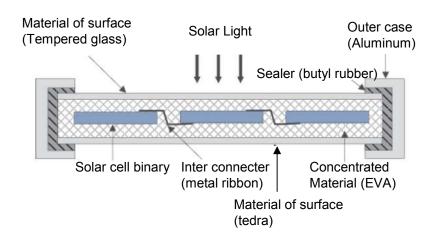
"ECOSTAR Solar Power LED Street Light" is composed of solar cell plate, control box, and power LED 30W. It is environmentally friendly, energy saving with longer running life, and effective for maintenance cost reduction. In addition, it has a controller for charging power in control box, and it controls light on / off automatically.

The light pole design and types of light case can be changed by individual customer's request.

#### Solar cell plate

As per street light design, it is possible to change the module (cell) type and design.

Outer dimension (mm) Length1500 X Width1000 X Height50

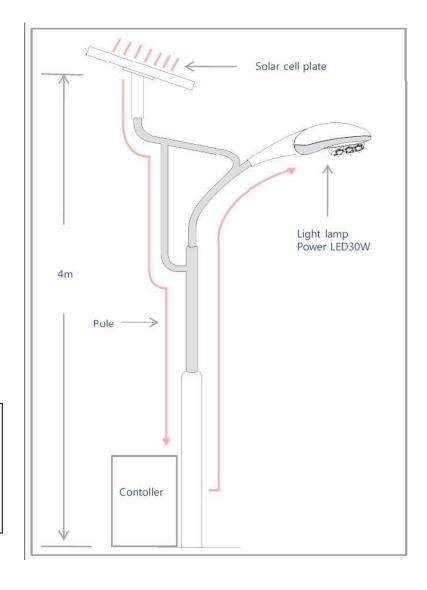


#### **♦**Controller

It saves the unstable power to battery from solar cell plate, prevents overcharging and overdischarging of battery.

#### **♦**Battery

It saves power energy (direct current) from the solar cell plate, and supplies power energy need for operation of exchanging current.







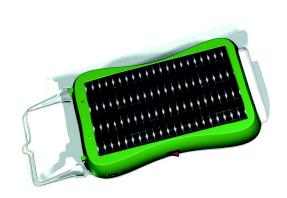
#### Solar Powers Africa And The World

The Solar is a solar powered lamp targeted for use in rural Africa, as a humanitarian product, and at home in the DongFang ShinSung as the perfect gift.

The LED Solar is powered by batteries that are charged from the sun via a small, efficient solar panel. It can also charge mobile phones and other devices. The handle allows the product to be carried and angled when standingor suspended.

The just strap it onto a backpack for daytime charging.













### A Style

Continuous Lighting Time: 8hour/full Recommended Charging/day: 6hours

Beam Angle: 360degrees

Battery: Lithium Ion/3pcs/3,7V 2,200mA

Lifetime of Battery: 5years LED: 12pcs of HB LED module Lifetime of LED: 50,000 hours

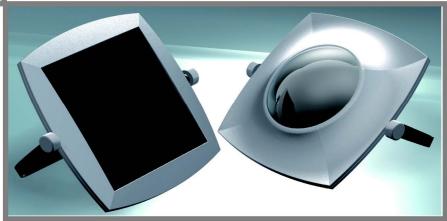
Solar Panel: 2,4Wp Power Switch : On-off Charge Indicator

Built-in Charge Controller

Material: Body-high strength ABS/

Bulb-PC

Handle-Tranceparence PC



## **EC-SL series (Lantern-C-C)**

## For Leisure Ure Only



C Style 360° Continuous Lighting Time: 8hour/full Recommended Charging/day: 6hours Beam Angle: 360degrees

Battery: Lithium Ion/3pcs/3,7V 2,200mA

Lifetime of Battery: 5years LED: 12pcs of HB LED module Lifetime of LED: 50,000 hours

Solar Panel: 2,4Wp Power Switch : On-off Charge Indicator Built-in Charge Controller

Material: Body-high strength ABS/

Bulb-PC

Handle-Tranceparence PC

Size: W240 X D148 X H56(mm)



## **EC-SL** series (Garden –Light)

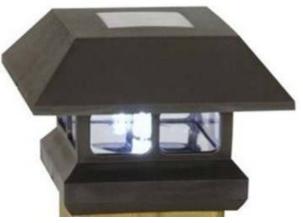














## EC-D series (Interior LED PANEL Light)

Applications: Flat communication board / Replacement of fluorescent lamps (Department store, house, Hotel, Office, and etc)













	11-24	Model		
	Unit	EC-D1	EC-D2	EC-D3
Power consumption:	W	30	70	70
Input Voltage:	V		AC 100V ~ 245V, 50/60H	Z
CRI Index (RA):			>0.90	
Illuminance:	lux/lm	350	1200	1100
Lighting Speed:	lm	1600	3400	3200
Light effectiveness:	lm/W	65	65	65
Color temperature:	Kelvin		3,000K / 5,000K / 6,500K	
CRI		>70		
Radiation Angle	deg		> 150 deg	
Size	mm	600x300mm	600x600mm	1200x300mm
Weight:	g	3.0kg	6.0kg	6.0kg
Using Temperature:	°C	-20 ~ 45°C		
Storing Temperature:	°C	-40 ~ 85°C		
Life time:	Hrs	50,000		

## **● Past Time Sales of LED Street Light, CANOPY**

Item No.	Country:	Location:	Date of Installation:	Light installed:
EC-SL	Japan	SHELL Gas Station	2008	90W LED CONOPY LIGHT
	Japan	Tokyo Shopping Street	2008	60W VIEW LIGHTING
	Indonesia	P.T. Seaweed	2007	90W LED STREET LIGHT
	Malaysia	J.K.R (Department of Construction & Transportation、Kuantan Government)	2010	130W LED STREET LIGHT
	Indonesia	Pertamina (National Petroleum Company)	2010	90W LED CONOPY LIGHT
	Colombia	RATAN HOLDINGS	2009	130W LED STREET LIGHT
	China	Dandong City	2010	130W LED STREET LIGHT





JapanSHELLGas Station



●Japan Tokyo Shopping Street



IndonesiaP.T Seaweed



◆ ColombiaRatan Holdings



IndonesiaPertamina(National Owned Gas Station)



ChinaDandong city

(Malaysia J.K.R. High Way)

#### **LEBUHRAYA PANTAI TIMUR (FASA 2)**

SEMPADAN PAHANG/TERENGGANU KE KUALA TERENGGANU (KG. GEMURUH)

