

U-Tron (Beijing) Electronics Co., Ltd

U-Tron

Solar Street Solutions



www.u-tron.com



... An Engineering Company

U-Tron (Beijing) Electronics... An Engineering Company

About us

U-Tron (Beijing) Electronics Co. Ltd. was established in 1992 as a 100% American funded and owned WOFE in Beijing, China, with the main purpose of bringing U.S. developed technology products to China for manufacturing and localization.

We are an Engineering company. We design, develop and manufacture High Power LED luminaries and We are committed to employing advanced technologies with the highest level of quality, service and value to our family of employees, customers and suppliers through a process of continuous improvement.

Company Business Development

Wendy Wen, the VP of Marketing at U-Tron (Beijing) Electronics Co. Ltd.- a professional Light Emitting Diodes (LED) Street Lamps manufacturing company in Beijing, China - says that the company had seen increased activity in its export markets in 2011.

Furthermore, the company has received many potential customers from USA, Dubai and Singapore in January 2012 alone. "Many more visits are scheduled for later this month from other parts of the world" Wendy said.

Factory and Office

"We usually take visitors to our BDA factory and show them how the lights are produced under strict ISO 9000 quality standards." she added. Today U-Tron has 1,000 square meters of office space in the Central Business District of Beijing and an 1,800 square meter factory employing 50 + people in the Beijing Development Area (BDA) of Yi Zhuang district. In January 2012, potential customers from Dubai toured the factory and witnessed the street lights manufacturing process and U-Tron's quality control procedures. The customers also witnessed the manufacturing of various prototypes that are in the development stage.



"When the world is experiencing a major financial crisis, it's important for us to work hard to save energy and protect the environment, otherwise the future of our small planet will be hurt by even more than the sufferings experienced today" said Wendy Wen, "our LED lights save energy and save the world"

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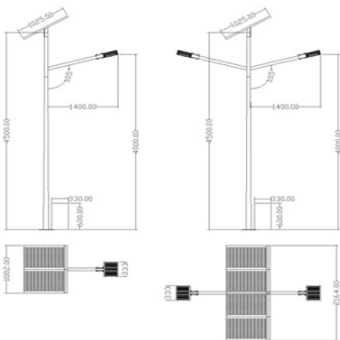
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LeDiwali Street Lighting System

Light features:

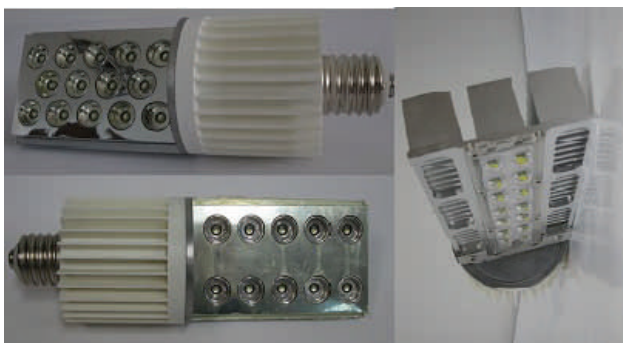
Are you worried that the sodium street lights hanging overhead are doing damage to the environment? Are they costing you too much to maintain and operate? Why not replace them with the LeDiwali?

This small sized but powerful light can save its user a lot compared to traditional electric incandescent lighting systems. It's a perfect E40 retrofit, which makes installation in any new or current system very easy. Just plug and play!



Applications:

Besides LeDiwali Outdoor for street lighting, U-Tron also provides a modified version: LeDiwali Indoor. This light is applicable in all kinds of indoor situations, replacing traditional incandescent E40 lights. Very adequate for locations such as commercial areas and heavy duty applications that require powerful but energy saving lighting.



LeDiwali Street Lighting System

LeDiwali Outdoor

Part Number: A-6840-014-CR5DC

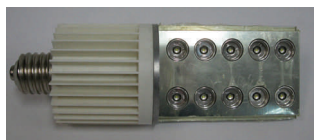


Technical Specifications:

Number of LEDs	14 Cree LEDs
Input Voltage	Universal
Power Consumption	20W
Environmental Rating	IP 58
Dimensions	L: 313mm, W: 84.00mm

LeDiwali Indoor 10

Part Number: A-6840-P10-CR5



Technical Specifications:

Number of LEDs	10 Cree LED
Input Voltage	Universal
Power Consumption	10W
Environmental Rating	IP 58
Dimensions	L: 272 mm, Dia: 92 mm.

LeDiwali Indoor 14

Part Number: A-6840-P14-CR5



Technical Specifications:

Number of LEDs	14 Cree LED
Input Voltage	Universal
Power Consumption	18W
Environmental Rating	IP 58
Dimensions	L: 272 mm, Dia: 92 mm.

SoLED Street Lighting System

Light Features:

SoLEDsWWW.SOLEDS.COM

SoLED is a combination of the classic Roman name of the sun (Sol/solaris, "sole" – free from the interference of others [also from the Latin, "solus"]) and the acronym LEDs. The name says it all: an independent, energy saving, non-polluting Solar Lighting product that can provide you with years of sustainable night light without any operating expense. SoLED can be used anywhere the sun shines and is the perfect combination of U-Tron's award-winning design and proven technical know-how of providing very wide light coverage at low pole heights.

Applications:

SoLED Street Lighting is suitable for any street lighting situation, guaranteeing a continuous and strong light flow. The table below displays the average ground lamination with various pole heights:

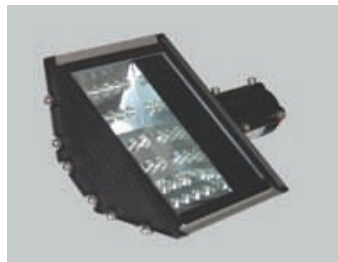


Height	Average ground illumination
4 meters	> 55.75 lx
5 meters	> 35.67 lx
6 meters	> 24.7 lx

SoLED Street Lighting System

SoLED I 30

Part Number: A-6830-030-CR5



Technical Specifications:

Number of LEDs	30 Cree LED
Input Voltage	Universal
Power Consumption	35W
Environmental Rating	IP 65
Net Weight	6.5 Kg
Dimensions	443*333*100.5mm

SoLED I 42

Part Number: A-6830-042-CR5



Technical Specifications:

Number of LEDs	42 Cree LED
Input Voltage	Universal
Power Consumption	50W
Environmental Rating	IP 65
Net Weight	6.5 Kg
Dimensions	443*333*100.5mm

Street Lighting System: Options

Solar Panel

Features:

1. Built for all weather types, comes with integrated water drainage holes
2. All corners are framed, limiting the number of screws, which increases the life expectancy.
3. Very low maintenance because of sealed junction box

Solar Panel 60W

Part Number: 6830-100-SP60



<u>Technical Specifications</u>	
Material	Mono/Polycrystalline Silicone
Max. Power	60 Watts
Dimension 60 Watts Panel	758mm*670mm*35mm
Weight	6 Kg
Optimum operating voltage (Vmp)	17.2V
Optimum operating current (Imp)	3.49A
Open-circuit voltage (Voc)	21.6V
Short-circuit current (Isc)	3.86A
Operating temperature	-40°C - 85°C
Maximum system voltage	600V DC
Power tolerance	± 3%

Street Lighting System: Options

Cabinet

Features:

1. Design to in-house the controller and the battery.
2. Portable and lightweight, so it can be placed anywhere and moved whenever necessary.
3. Can be mounted both on the pole as well as on the ground

Solar Cabinet

Part Number: 6830-150-C4U



Technical Specifications	
Water Proof	Yes
Pole/Ground Mounted	Optional
Working Temperature Range	-20°C - 60°C
Dimensions	500*400*220 mm
Net Weight	8 Kg

Street Lighting System Options

Batteries

Features:

1. High corrosion resistant performance: Pb-Ca Multi-alloy grid
2. Patented Silicate compound electrolyte; Minor acid vapor & Environmentally friendly
3. High energy and power density
4. Excellent charge acceptance ability
5. Strong high & low temperature performance
6. Optimized capability of instant High-current discharging

Battery I: 36 Ah

Part Number: 6830-130-B36



Battery II: 65 Ah

Part Number: 6830-130-B65



<u>Technical Specifications</u>	
Nominal Capacity	40/65 Ah
Voltage	12V
Dimensions 36 Ah battery	196*131*166 mm
Dimensions 65 Ah battery	350*166*176 mm
Weight 36 Ah battery	11.5 Kg
Weight 65 Ah battery	23 Kg

Street Lighting System Options

Controllers

Features:

1. 12/24V automatic recognition
2. High efficient Series PWM charging, which increases the battery lifetime and improves the solar system performance.
3. Electronic protection against: overheating, overcharging, over discharging, overload and short circuit.

Controller 20 Ampere

This controller comes with programmable switches to select number of hours of operation and other functions. For more detail please see the manual at the end of this catalog.

Part Number: 6830-121-C20



Hybrid Controller

This controller can keep the light working from the grid even if there hasn't been sunlight for a few days to charge the batteries.

Part Number: 6830-180-S0



<u>Technical Specifications</u>	
Nominal System Voltage	12 / 24VDC Auto work
Battery Voltage Range	6-36V
Charge Circuit Voltage Drop	≤0.26V
Discharge Circuit Voltage Drop	≤0.15V
Self-consumption	≤6mA
Max. Output Power (Hybrid)	60W
AC Input Voltage (Hybrid)	AC 170-264V
Rated Charging Current (Hybrid)	10A
Rated Load Current (Hybrid)	5A

Street Lighting System Options

Cables

Features:

1. Dual wall insulation, cross linked electron beam
2. Excellent resistance to U.V., oil greases, oxidation and ozone
3. Halogen free, flame retardant, low toxicity
4. Excellent flexibility and stripping performance and excellent resistance to abrasion

Cable 50 M

Part Number: 6830-160-C15



<u>Technical Specifications</u>	
Temperature Range	-60°C~ +200°C
Rated Voltage	450/750V
Conductor Material	Tin-plated Copper
Outer Dimension	8.7 mm
Insulation Material	Silicone
Outer Dimension	11±0.4 mm
Jacket Material	Rubber
Outer Dimension	13.5±0.4 mm

Street Lighting System Options

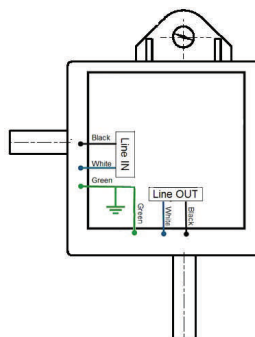
Lightning Arrester

Features:

1. Protects the installation from lightning damage
2. Helps equipment meet IEC61000-4-5 Class 4 requirements
3. Big coverage; only one unit necessary per cluster

Lightning Arrester

Part Number: 6830-160-LA1



<u>Technical Specifications</u>	
Max. Voltage (V)	227 VAC
Max. Current (A)	1.25
Max. Surge (8/20US) Current (A)	1 hit: 10000 2 hits: 6500
MOV	CSA, VDL, UL 1414/1449 recognized
PPTC	CSA, TUV, UL 1434 recognized
Wire	18AWG, 600V insulation
Enclosure	UL94 54A rated

Street Lighting System Options

Solar Panel Bracket & Steel Pole

Features:

1. Both Bracket and Pole are hot-dip galvanized to avoid corrosion
2. High quality steel to ensure endurance
3. Color can be adapted per request

Solar Panel Bracket

Part Number: 6830-140-S0



Steel Pole

Part Number: 6830-110-S0



<u>Technical Specifications</u>	
Material (Bracket)	Aluminum Al 6005-T5 & SUS 304
Material (Pole)	Q235 Steel
Anticorrosive	Hot galvanized
Install Angle (Bracket)	0-60 degree
Wind load (Bracket)	130 mph (60m/s)
Dimensions (Bracket)	Adaptable to solar panel of choice
Pole height	5 - 7 m
Pole diameter	4" (upper), 6" (lower), 14" (base)

New Product Coming Soon!



Evening Star will be a great addition to the existing range of Solar Street Lights, offering the perfect solution for situations that require medium pole height lighting.

Our Evening Star light will be available in two versions; with 10 or 20 LEDs.

Make sure to visit our website www.u-tron.com for the latest information!



Order Form: Lighting Systems

LeDiwali Outdoor & Indoor

<u>Ordering Part #</u>	<u>Description</u>	<u>Quantity</u>	<u>MSRP</u>
A-6840-014-CR5DC	LeDiwali Outdoor		
A-6840-P10-CR5	LeDiwali Indoor 10		
A-6840-P14-CR5	LeDiwali Indoor 14		

SoLED I 30 & I 42

<u>Ordering Part #</u>	<u>Description</u>	<u>Quantity</u>	<u>MSRP</u>
A-6830-030-CR5	SoLED I 30		
A-6830-042-CR5	SoLED I 42		

Order Form: Options

Ordering Part #	Description	Quantity	MSRP
6830-100-SP60	Solar Panel 60W		
6830-150-C4U	Cabinet A with 3 outlets		
6830-150-C6U	Cabinet B with 6 outlets		
6830-130-B40	Battery 40Ah		
6830-130-B70	Battery 70Ah		
6830-130-B150	Battery 150Ah		
6830-121-C20	Controller 20A		
6830-160-C15	Cable		
6830-160-LA1	Lightning Arrester		
6830-140-S0	Solar Panel Bracket		
6830-110-S0	Steel Pole		
6830-001-MAN	Solar Lightng System Installation Manual		

Note: Installation Manual is included with complete system order.

U-TRON Warranty

U-Tron (Beijing) Electronics Co. Ltd., warrant the products listed below for a period of 36 months from the date of shipment to be free from defects in material or workmanship and to be of the kind and quality designated or specified in the purchase agreements. If any products do not meet the above warranty and the buyer promptly files a warranty claim U-Tron shall do the following:

1. U-Tron shall provide a 12 month "No Questions Asked" replacement of any faulty units at no charge to the customer. The time limit for exchange shall not exceed 30 days from the time a claim is filed by the buyer. The buyer shall return the faulty units within 30 days of filing the claim. The method of returning the faulty units to U-Tron shall be decided at that time by U-Tron and all shipping charges shall be borne by U-Tron.
2. At the end of the 12 month period U-Tron shall provide additional free extended warranty for another 24 months. During this 24 month period U-Tron shall repair or replace and re-certify all faulty units returned. Shipping charges for sending the units to U-Tron shall be the responsibility of the Buyer and the Shipping charges to return the repaired goods to the buyer shall be borne by U-Tron. Time limit for repairs shall not exceed 60 days.
3. The warranties set forth herein shall be voided if the units have been 1) repaired or altered by any un-authorized person 2) subjected to misuse, negligence and accidents or operated in other than normal operation and use. 3) Connected, installed or modified in a manner not in accordance with U-Tron instructions.
This warranty is applicable to all LED Products.
4. U-Tron at our own option can elect to provide replacement units at any desired percentage to be warehoused and logged by the buyers for timely service of the extended warranty replacements. When the warranty expires the bad units and the unused spare parts items shall be shipped back to U-Tron unless otherwise stipulated in the contract or purchase agreements. If the warehoused quantities become 90% used up or nearing the end of stock, the buyers shall ship back the faulty units to U-Tron. U-Tron shall rotate the spare parts inventory with in 60 days of receiving from the buyers.
5. All warranty claim items shall be shipped to the buyers regardless of the geographical location, by air freight to the nearest airport or courier service to the customer site, and any returning items can be shipped by sea or air freight at the request of U-Tron. If the customer fails to return the said faulty units with in the time frame as instructed, it will be considered as sold and U-Tron reserve the rights to bill the customer for its full value.
6. U-Tron shall not bare any responsibilities with the buyer's customer claims or shall not bare any other expenses incurred other than the units cost it self. Customer site un-installation and re-installation of any faulty units shall not be the responsibility of U-Tron.

U-Tron LED Lights

Save Energy, Save the World!



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