Product Specifications

UPPLANDS Energy Inc.
an energy conservation company

ZeroSUN™ technology for SOLAR POWERED LIGHTING

Oct17-2018

"Weeks of light without SUNSHINE" 6000K CE RoHS

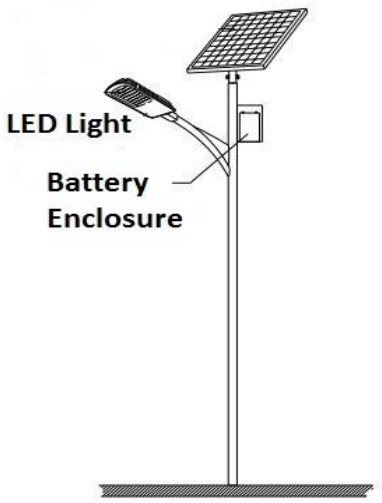
Optional 4G GPS-LoRaWAN Control and Monitoring LM80 compliant IP65

STREET LIGHTING, PARKING LOTS, GENERAL AREA LIGHTING

Models offered for different environmental conditions based on regional requirements for achieving the most cost effective solution with uncompromising performance.

Warranty

5 years
10 years optional complete systems warranty

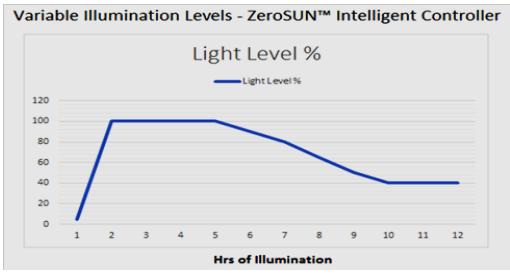


Overview

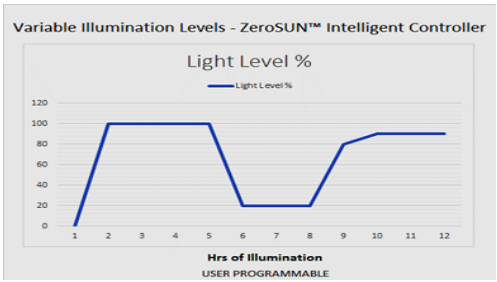
	30W	50W	80W	100W	150W
Max Light Output	3300 lm	6000 lm	9600 lm	11300 lm	17000 lm
PV PANELS Type	Monocrystalline silicon				
Efficiency	20% plus				
BATTERIES	Colloidal GEL, advanced technology for high efficient charge and discharge performance for the most demanding environmental conditions				
POLES	Supply of poles is optional, offering a wide range of application specific designs				
Pole heights	5-6 m	5-6 m	6-7 m	7-8 m	8-10 m

Operating Principals

Type "A" **Pre-programmed** for energy saving dimming modes to conserve battery power under any weather condition including weeks of no sunlight to ensure the most efficient use of charge and discharge cycles of the batteries.
Type "A" provides constant and efficient lighting performance under no or low levels of sunlight and during cloudy and prolonged days of rain and fog.



Type "M" **User programmable,** motion sensor compliant controller.
Program up to four (4) time specific light modes by IR remote with or without the use of Motion Sensor.
User friendly program setup with hand held IR remote (provided).



Others Current controlled switching from Charge to Discharge cycles, no photosensor required

Selection of luminaire models for area lighting - APPLICATION SPECIFIC


Beige/Black


Grey


Black


Black


Any Color


White


Black

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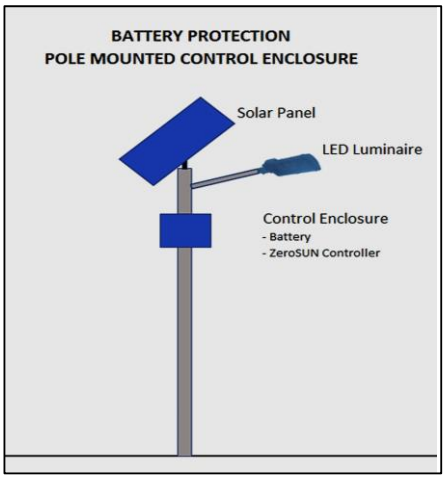
TEMPERATURE COMPLIANT SYSTEMS CHOICES
for Battery protection

In any solar lighting systems the Batteries are the most vulnerable for cold temperatures. At -15C and below the Charge and Discharge cycles will gradually become less efficient thus effecting the overall performance for the entire system. UPPLANDS is providing the following methods of Battery Protection to not only maintaining and extending the longevity of the batteries but just as importantly, offering the most cost effective solution for any off-grid solar powered area lighting

Operating temperature ranges

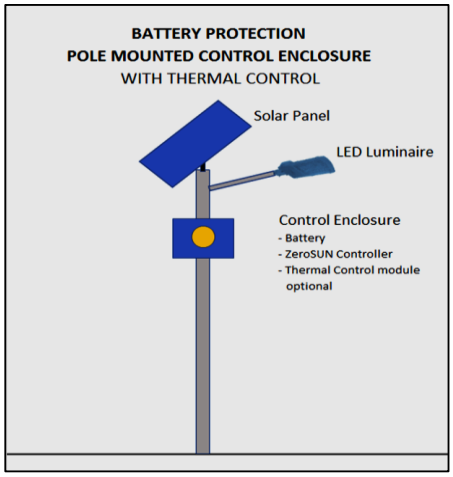
-30C to +55C
Insulated battery enclosure
Integral Controller

A



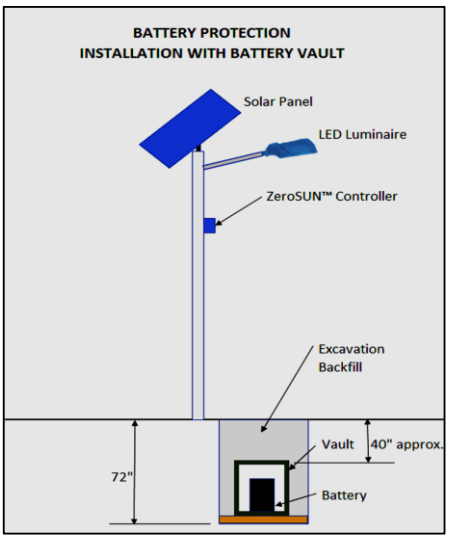
-50C to +55C
Insulated battery enclosure
Integral Controller
Thermal Control Module

B

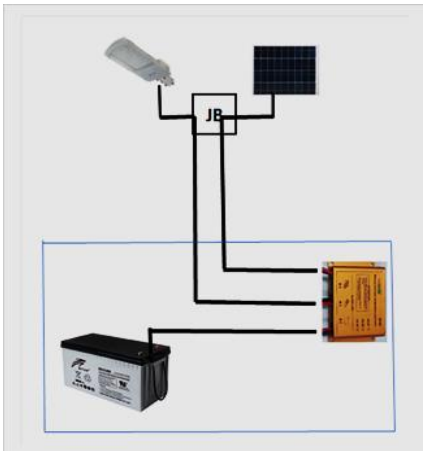


-50C to +55C
Battery Vault, below ground
Controller Box - pole mounted

C



Pre-shipment testing
Each system is completely pre-assembled and tested prior to shipment at our permanent solar test facilities



Installation
PV Panel including panel support bracket and sleeve to fit over 2" dia SCH40 tenon
Enclosure: mounting brackets and hardware included for pole mounting

Wiring
All components to be connected to the ZeroSUN™ Controller
All wiring, conduits and junction boxes, as required, supplied by UPPLANDS

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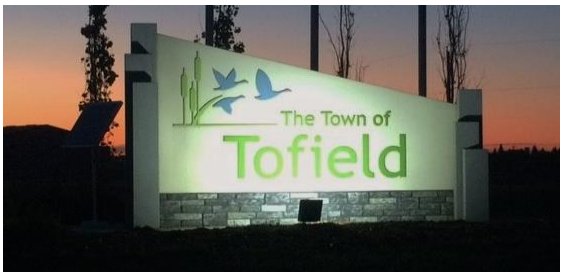
APPLICATIONS OF ZeroSUN™ TECHNOLOGY

GENERAL AREA LIGHTING
- Street Lighting
- Parking areas
- Parks
- Playgrounds
- Cottages
- Camp sites
- Farms

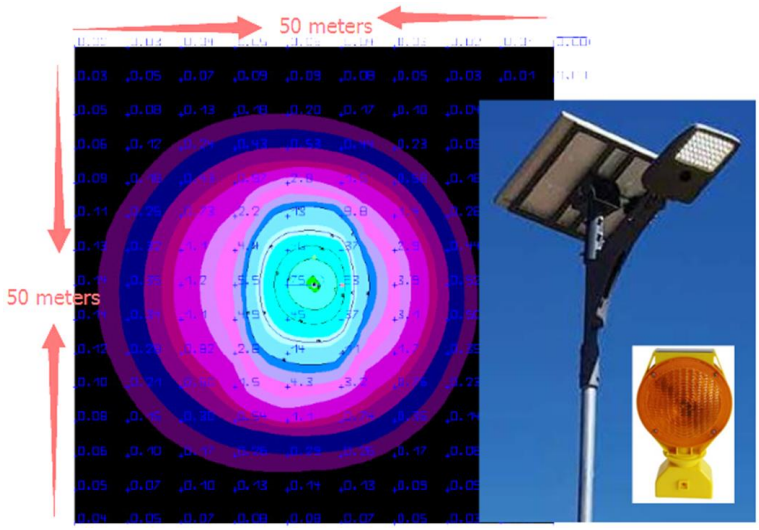


BILLBOARD LIGHTING
- Rural Areas
- Stadiums
- Corporate Signs
- Shopping Centers

INDOOR/UNDER CANOPY LIGHTING
- Sea Cans
- Trailers
- Bus Shelters
- Under Canopy
- Outdoor Waiting Shelters
- Sheds, Tool Rooms
- Cottages

SAFETY LIGHTING - RURAL ROADWAY INTERSECTIONS

Wide area coverage beam angle specifically designed for rural intersections. Combined with blinkers the installation provides an excellent warning system for night traffic for much improved safety.



Main features includes:
Off-grid solar lighting in any weather
Adjustable, pivoting PV panels and lights
Solar powered safety blinkers
Maximum area coverage vible from 800m max.
Color temperatures: 3000K; 4000K; 5000K

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