

**GetTechnologies™**

# Solar Pathway

SOLAR GARDEN LIGHT

# GET-ALB 06

TECHNICAL SPECIFICATIONS



*Pioneer of LED Lighting Technology in Pakistan*




# Solar Pathway

## SOLAR GARDEN LIGHT

Solar pathway enjoy a smart and unique design together with the best components available on the market. Using LiFePo4 Battery, PWM contoller and also made in aluminum makes it the most sustainable and reliable solar landscape light solution.

NOMINAL FLUX .....	500 LUMENS
NOMINAL POWER .....	3 WATTS
IP RATING .....	IP65

### LIGHTING

Efficiency .....	167 Lumens/Watts
Efficiency for Amber .....	100 Lumens/Watts
Chips LED .....	BRIDGELUX
LED lifetime .....	Over 80 000 hours LM80
Optics/CCT .....	T-V -- <b>Amber</b> / 2200K to 5000K

### BATTERY

Technology .....	Lithium Iron Phosphate LIFEPO4
Capacity .....	38Wh
Autonomy .....	12 hours - 4 Rainy Days back up
Charging time .....	5-6 hours
Lifespan.....	Over 2000 CYCLES @ 80%
Working temp.....	-20°C to 60 °C

### ENERGY

Solar panel .....	7 Watts / 9V
Cells type .....	Monocrystalline Panel Grade A 25 years
Certificates .....	IEC 61215 - IEC 61730 I and II - IEC 60904

### ELECTRONIC

Controller.....	Pulse Width Modulation Smart Control
Sensor.....	Passive Infrared Sensor
Protection .....	Battery Management System (BMS)

### MECHANICAL

Pole mounting.....	Φ101mm
Material .....	Aluminium
Product.....	256 x 256 x 889
Carton Size.....	300 x 300 x 946
Net Weight .....	4.8Kg
Gross Weight .....	6.7Kg



Landscape



Yard



Pathway



Warranty: 5 years for fixture, 3 years for battery.

# LUMINAIRE HOUSING & LEDS

560 LUMENS - 2200 TO 5000 K

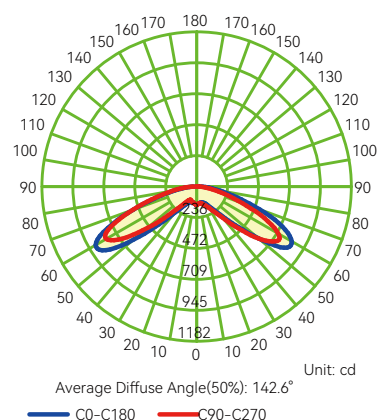
High pressure die-cast aluminum renders IP65 ingress protection.

Our Luminaire is equipped with Bridgelux high efficiency chips providing an overall 167 Lumens per Watt efficacy. CRI 80.



## LIGHT DISTRIBUTION CURVES

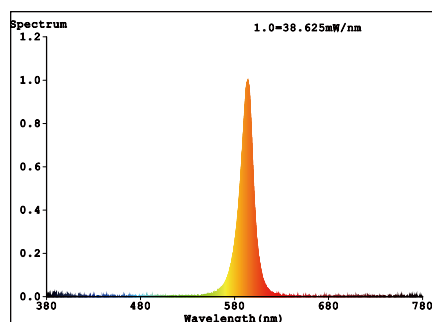
TYPE-V AVERAGE BEAM ANGLE (50%): 142.6° DEG



## AMBER SPECTRUM



Can meet the turtle light requirement.



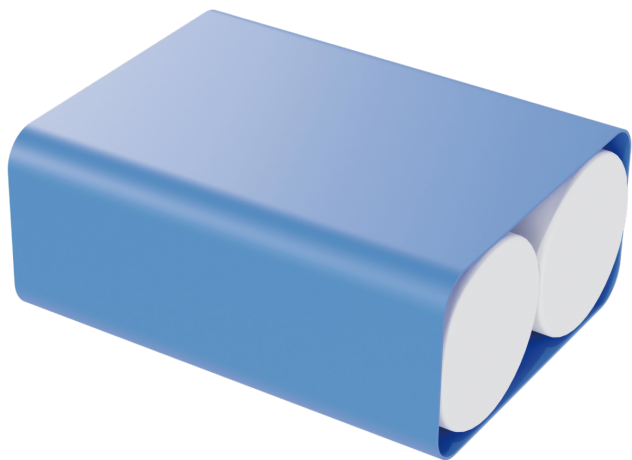
# PIR SENSOR



## PASSIVE INFRARED SENSOR

Human body emits the heat in form of infrared radiation and PIR sensor is specially programmed to detect this type of radiation emitted or reflected from objects. In addition, they are small, inexpensive, low power and easy to use.

# BATTERY LIFEPO4



The Solar Pathway is equipped with Iron Phosphate Lithium LiFePo4 battery. This technology is proved to be the best chemical technology for solar application on the market.

Proving over 2000 Cycles @ 80% DOD opeartion time, and the warranty for battery is 3 years.

## EXTREME TEMPERATURE -20 °C TO 60 °C

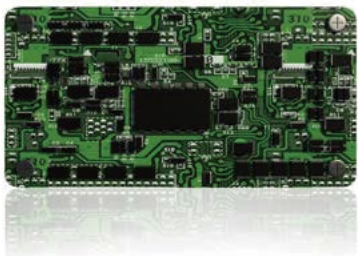
Even under extreme temperature of -20°~60°, the normal function and lifespan of battery will not be influenced or damaged.

## EASY MAINTENANCE

Easy and direct access to the battery casing for maintenance. The casing is made with rigid PVC for perfect waterproof and heat dissipation.

## BMS ELECTRONIC PROTECTION BATTERY MANAGEMENT SYSTEM

The full name of the Battery Management System, is the link between the battery and the user, ismainly responsible for the management of thebattery's charging and discharging performance, inorder to ensure that the battery's safe, stable andlong-life operation.



The BMS Protects against :

- OVER/UNDER CURRENT
- OVERLOAD
- OVER/UNDER VOLTAGE
- OVER/UNDER CHARGE
- TEMPERATURE MANAGEMENT

## COMPARISONS OF DIFFERENT BATTERY TECHNOLOGIES

### LIFETIME & CYCLES AT 80% DOD\*

Comparison of different battery technologies



Lead Acid  
200



NimH  
700



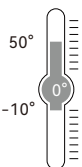
Lithium ION  
800



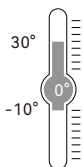
Lithium LifePO4  
2000

### CHARGING TEMPERATURE RANGE WITHOUT CAPACITY LOSS

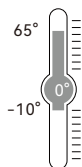
Minimum & Maximum temperature range for Optimal charing during the day



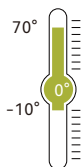
Lead Acid



NimH



Lithium ION



Lithium  
LifePO4



# SOLAR PANEL

High efficiency mono-crystalline Solar panels. Carefully selected Grade A Solar cells. Up to 20.4% efficiency.

Optional reinforced PC shield provide a full cover protection against water and dust ingress, refraining from external damage to panel function, prolonging lifetime of panel operation.

solar cells  
GRADE **A**



IK07 



with cover  
IK10 



# CONTROLLER PWM



REMOTE CONTROL  
(OPTIONAL)

Switch between Night Constant mode and Night Motion sensing mode.  
Press "M", the led fixture blinks once to switch to Bright with motion at night.  
Press "M", the led fixture blinks twice to switch to constant ON at night.

CCT: Amber/3000K/4000K/5000K

Press "○", the light will keeps steady 100% brightness all the time.

Press "-" to lower the brightness 10%.  
Press "+" to higher the brightness 10%.

Press "◐", the light will keeps steady 50% brightness all the time.

Light model of Motion sensor:  
M1, M2, M3 & AUTO

ON/OFF-: Press" ON/OFF" you can control the light to turn on/off manually.  
Only work in the model of constant ON at night.

→ Only work in the model of constant ON at night.

Interval for switching between presence and absence: 1 minute

	Induction time	Nobody under the light	Somebody under the light	Total Wh
Mode 1	4H	60%	100%	31Wh
	10H	15%	100%	
Mode 2	Induction time	Nobody under the light	Somebody under the light	Total Wh
	3H	80%	100%	29Wh
	2H	60%	80%	
	9H	10%	80%	
Mode 3	Induction time	Nobody under the light	Somebody under the light	Total Wh
	14H	25%	80%	26Wh

## F E A T U R E S

PWM(Pulse Width Modulation) smart controller system, a proven reliable, efficient solution for remote signal transmission on the market, because of **three vital features**:

### - Accuracy:

Adjust brightness by regulating pulse width to achieve accurate lighting effects.

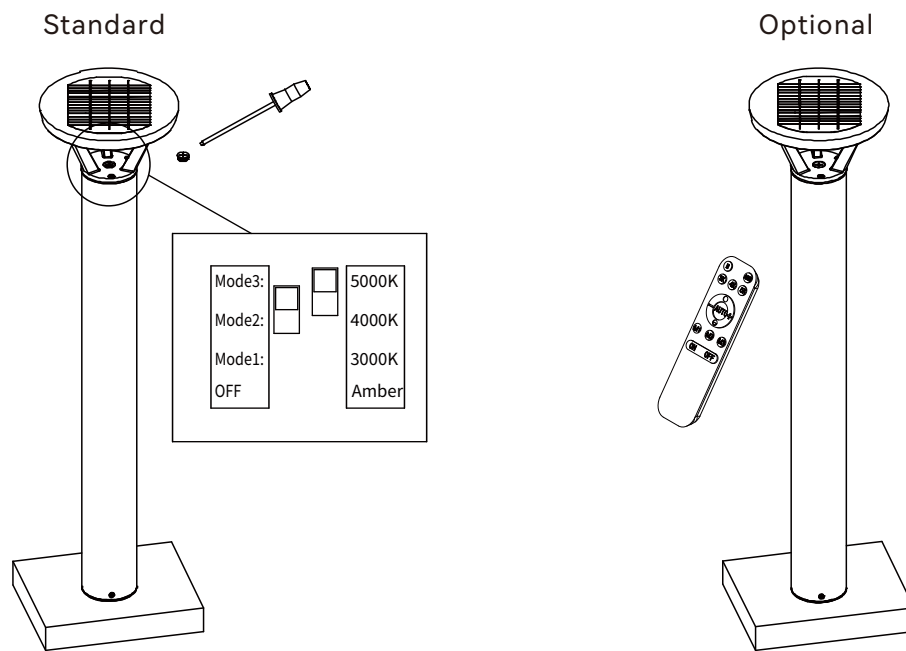
### - Efficiency:

Discard traditional adjustment via current intensity which cause extra energy consumption.

### - Safety:

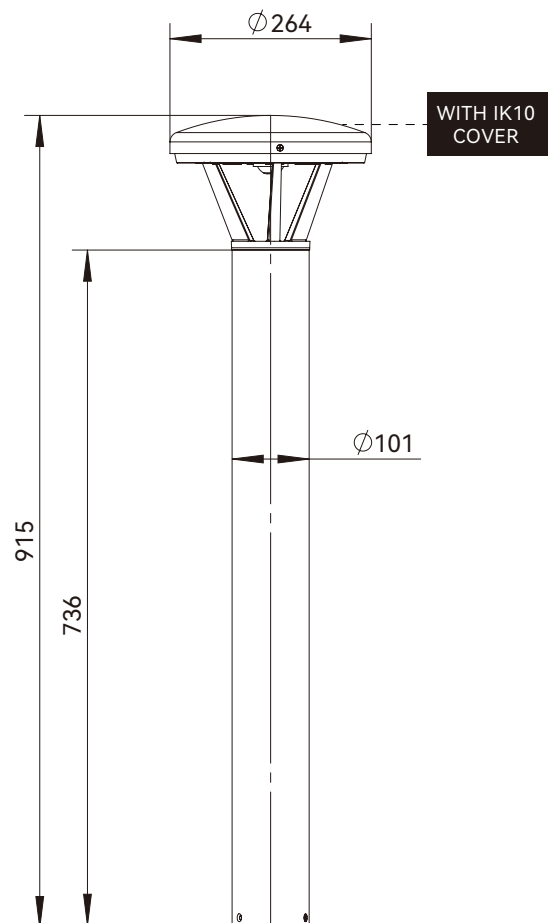
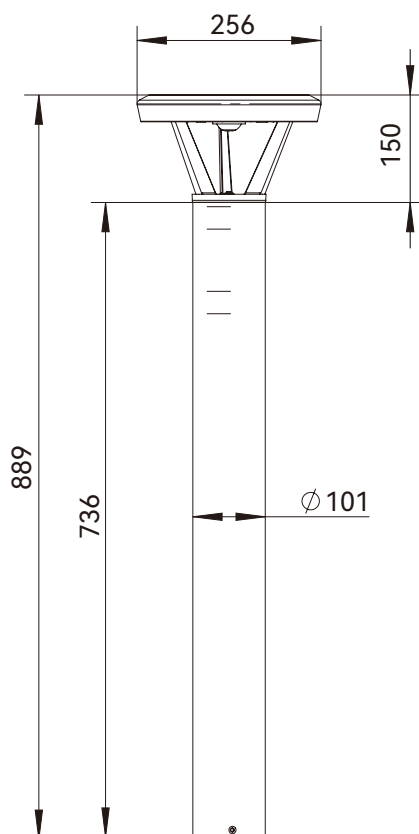
Reduce current surge while on and off and potential damage to driver and LED chips.

# SELECTABLE CCT AND MODE



## DIMENSIONS\*

SOLAR PANEL & LED









*Pioneer of LED Lighting Technology in Pakistan*

# GetTechnologies<sup>TM</sup>

**Powering a Green Tomorrow**

**Get in Touch:**

0321-5959170, 0321-5959171

E-mail: [sales@getgroup.pk](mailto:sales@getgroup.pk)

Visit our website: [www.gtcree.com](http://www.gtcree.com)

24 KM Main Ferozepur Road, Kahna Nau, Lahore, Pakistan