



User Manual of Solar LED Flood Light

HIGHLIGHT HL-FL-AUR SERIES

Product Brief Introduction

Thank you for using LED light SolarPath HIGHLIGHT HL-FL series.

The design of Solar LED Light is the latest designed product combining solar and battery, which includes battery technology. Controller and battery are built-in the light head and the customer only need to connect light head to solar panel via MC4 plug which is the standard connection of solar panels.

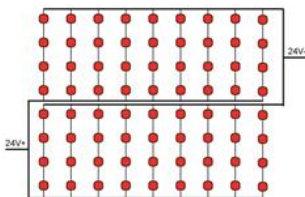
● Solar Panel



Solar panel is separated from solar light, so power of solar panel is not limited and it compares with the normal all in one solar street light. Customers can choose solar panel with the right power & size according to local climate. Solar panel can be increased or decreased to meet customer's requirement.

Solar light module can be purchased separately, you can buy the solar panel from your local market or use the solar panel in stock.

● LED Power



This solar light is using 72pcs of Lumileds 1W SMD3030 as light source, 72Pcs LED are spread as 4pcs in series connection and 18pcs in parallel connection.

---LED Lumileds SMD 1W: 6V 150mA.

---Power of 72pcs LED is supposed to be 72W , the voltage fixed is 24VDC (4Pcs*6V=24V)

---The Current of 72W (100% brightness) is 3.0A.



The current of led board is changeable from 0A to 3A to get different watts.

10W=24V x0.42A 15W=24V x 0.63A 20W=24V x 0.83A

30W=24V x 1.25A 40W=24V x 1.67A 50W=24V x 2.08A (Max 3.0A)

● Remote Setting

Item	Name abbreviation	Value	Description	Mark
a	Bat Type	Li12	Select battery type, Li12	DON'T CHANGE
b	S-Time-1:	<u>5</u> H	1 st time block lighting time (0~15 hours)	Changeable
c	S-C-Pow1:	<u>100</u> %	1 st Power when sensor is activated (0~100%)	Changeable
d	S-L-Pow1:	<u>50</u> %	1 st Power when sensor is OFF (0~100%)	Changeable
e	S-Time-2:	<u>6</u> H	2 nd time block lighting time (0~15 hours)	Changeable
f	S-C-Pow2:	<u>70</u> %	2 nd Power when sensor is activated (0~100%)	Changeable
g	S-L-Pow2:	<u>40</u> %	2 nd Power when sensor is OFF (0~100%)	Changeable
h	S-Time-3:	<u>4</u> H	3 rd time block lighting time (0~15 hours)	Changeable
i	S-C-Pow3:	<u>50</u> %	3 rd Power when sensor is activated (0~100%)	Changeable
j	S-L-Pow3:	<u>30</u> %	3 rd Power when sensor is OFF (0~100%)	Changeable
k	S-D-Time:	<u>40</u> S	Delaying time when sensor activated (0~250)	Changeable
l	L-Con-V:	<u>7</u> V	Lighting ON/OFF control voltage (5~11)	Changeable
m	L-Con-DT:	<u>10</u> M	Lighting ON/OFF delay time (0~50 mins)	DON'T CHANGE
n	LED-Cur:	<u>1.50</u> A	Current output from battery. DON'T CHANGE	DON'T CHANGE
o	Smart Pow:	No	Smart power control. YES=ON NO=OFF	DON'T CHANGE
p	0°C Chg-P:	No	0°C charging protection YES=ON NO=OFF	DON'T CHANGE
q	Chg-Mode:	PWM	Charging mode control	DON'T CHANGE
r	Over-DV	10.5V	Over-discharging protected voltage	DON'T CHANGE



s	Over-DRV	13.0V	Over-discharging recover voltage	DON'T CHANGE
t	Over-CV	12.7V	Over-charging voltage	DON'T CHANGE
u	Over-CRV	NO	Over-charging recover voltage	DON'T CHANGE
v	Re-Deflt:	NO	Restore factory default values	

1: Night time are cut into three blocks, each time block can be set freely.

2: Value from "a" to "k" is changeable.

Example of Setting:

Name	Example A	Example B	Example C	Example D
S-Time-1:	<u>4</u> H	<u>12</u> H	<u>6</u> H	<u>6</u> H
S-C-Pow1:	<u>100</u> %	<u>100</u> %	<u>100</u> %	<u>100</u> %
S-L-Pow1:	<u>50</u> %	<u>50</u> %	<u>50</u> %	<u>50</u> %
S-Time-2:	<u>4</u> H	<u>0</u> H	<u>6</u> H	<u>6</u> H
S-C-Pow2:	<u>70</u> %	<u>0</u> %	<u>70</u> %	<u>70</u> %
S-L-Pow2:	<u>40</u> %	<u>0</u> %	<u>30</u> %	<u>30</u> %
S-Time-3:	<u>4</u> H	<u>0</u> H	<u>0</u> H	<u>0</u> H
S-C-Pow3:	<u>50</u> %	<u>0</u> %	<u>0</u> %	<u>0</u> %
S-L-Pow3:	<u>20</u> %	<u>0</u> %	<u>0</u> %	<u>0</u> %

Notice:

When producing the solar light in factory, there is a default setting done with controller. When you receive the light, just need connect light with solar panel, and turn on the switch at backside of light.

The default setting is Example D.

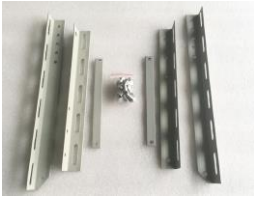
Remote controller is just as a backup in case of changing needed.

Operation Method

1. Use the MC4 connector to plug the light to the solar panel.
2. Press the button on the main body to the ON position to make the light turn on automatically after sundown (Lighting mode was set by factory before delivery).
3. The solar led light is now ready for use. You can also use the remote control to change the lighting modes or brightness.
4. Press the button to the OFF position then the light will stop working, or use the remote control to turn off the light.

Installation instructions

Accessories: 1.solar flood light; 2.solar panel; 3.solar panel adapter bracket with screws;



① Fix the solar panel bracket with screws



② Fix solar panel bracket with solar panel

③ Fix the other side of the solar panel



④ Fix solar panel on the wall



⑤ Fix the light on the wall

Technical Parameters

Item	HL-FL-AUR-15W	HL-FL-AUR-20W	HL-FL-AUR-30W	HL-FL-AUR-45W	HL-FL-AUR-50W
Power	15w	20w	30w	45w	50w
Efficiency	1900lm	2800lm	4000lm	5800lm	6800lm
Light source	Philips SMD 3030				
Beam angle	140*70				
Battery	Lithium				
	192WH	312WH	432WH	528WH	635WH
Solar panel suggest	45W	60W	80W	100W	110W
	MONO	MONO	MONO	MONO	MONO
Material	Aluminum Die Casting				



Warranty	2 years
IP Rating	IP67

Maintenance

Problem	Problem Cause	Solutions
Lamp doesn't work at all	Light source is damaged	Replace it with the same light source
	The battery has run down	Charging the battery
	Light doesn't work in day time	Changing the light setting with remote control
	Positive & negative of solar panel are connected conversely.	Connect the positive & negative of solar panel to a correct position.
Battery can't get charged	Positive & negative of the solar panel are connected conversely.	Connect the positive & negative of solar panel to a correct position.