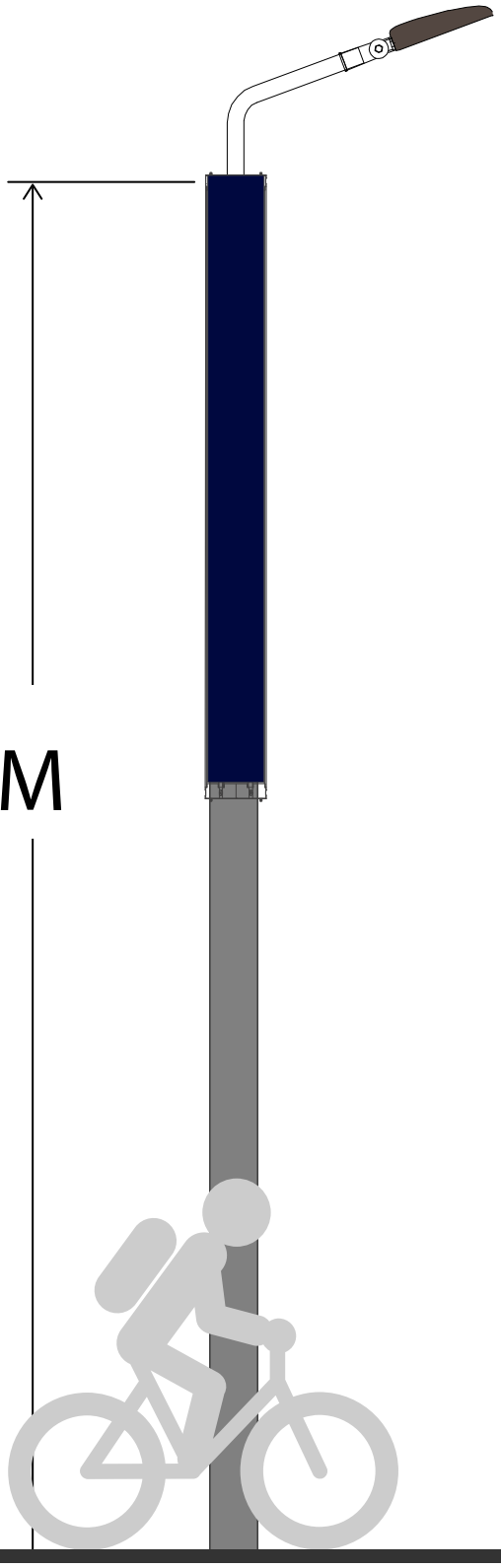
SOLPOL 60W - Overall Specifications



Post Height	:	8 Meters
Light Power	:	60W / Philips SMD3030
Luminous Flux	:	> 7,000lm
Beam Angle	:	140 x 70 °
Battery Capacity	:	12V 635Wh Li(NiCoMn)O2
Battery Lifetime	:	> 1500 Cycles
Solar Cylinder	:	Q100 3Pcs
Solar Controller	:	Programmable MPPT
Post Dimension	:	70 x 170mm
Working Temp.	:	-20 ℃ ~ +60 ℃
Posts Distance	:	18 ~ 20 Meters
Warranty	:	5 Years / 20 Years PV

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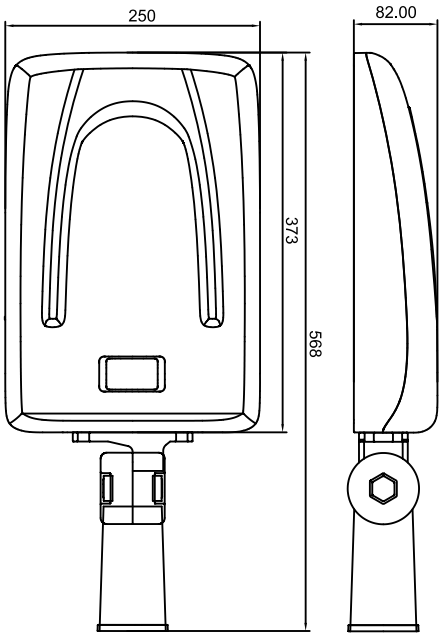
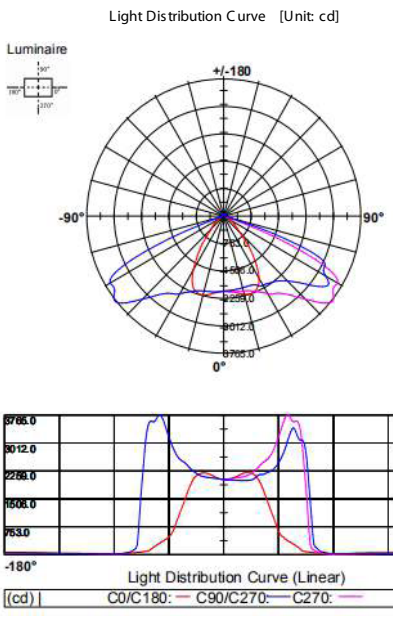
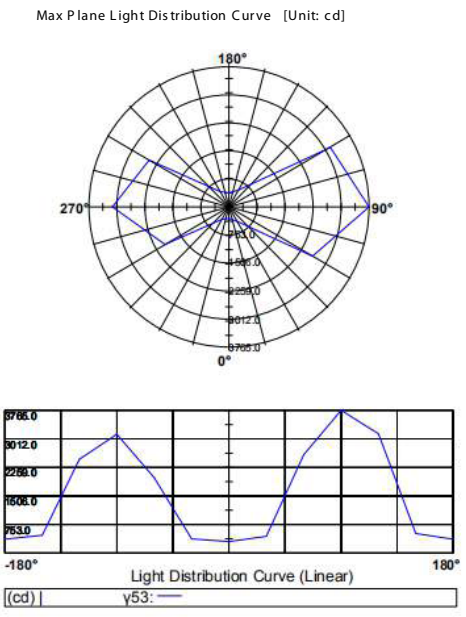
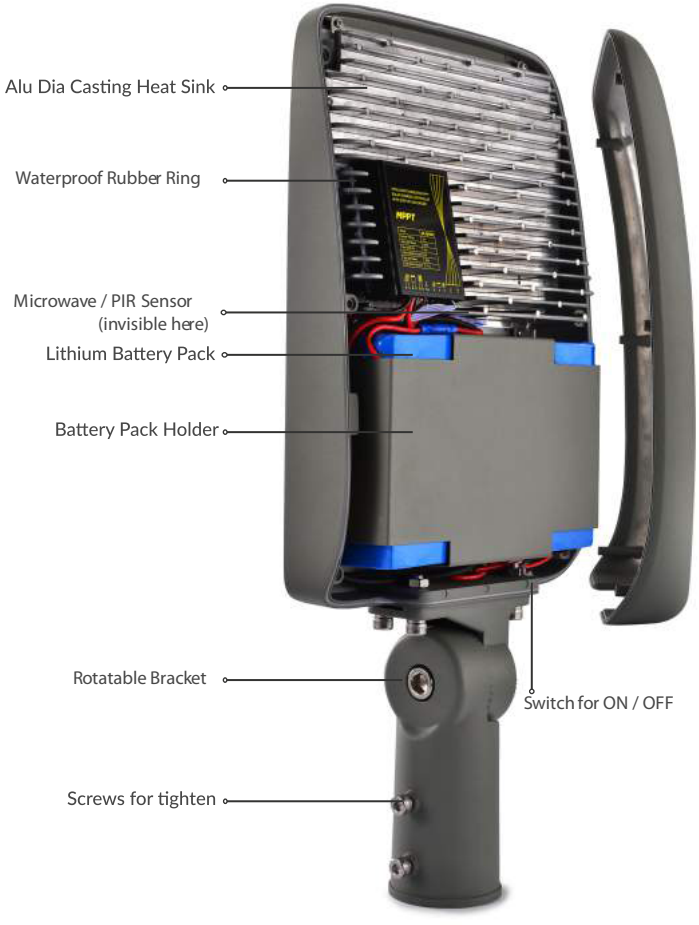
SOLPOL 60W LED Fixture Specifications





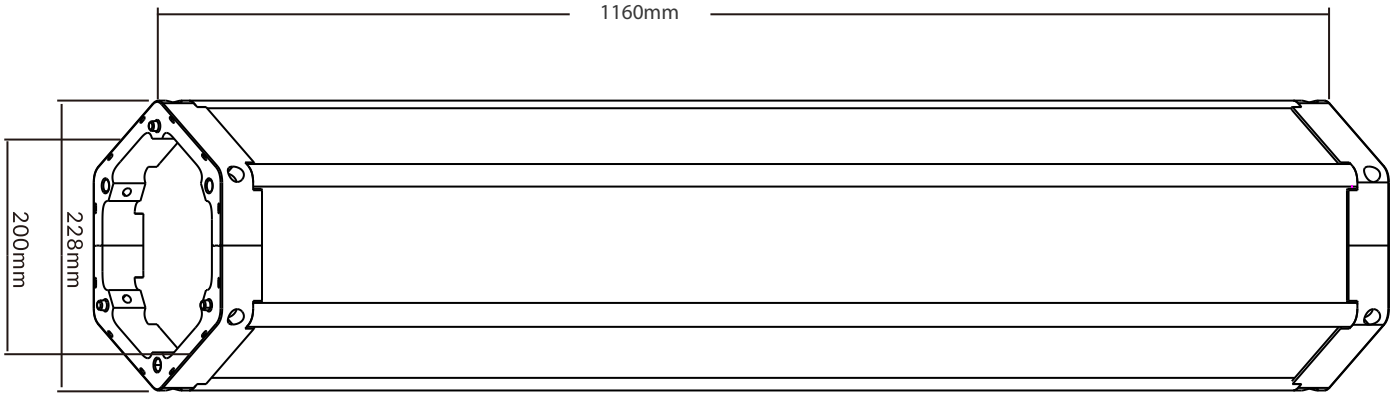


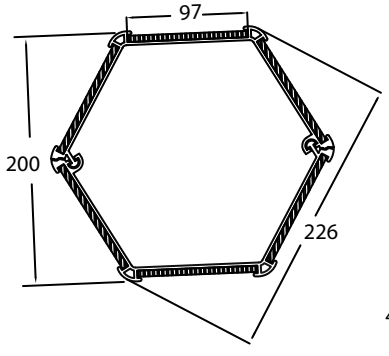


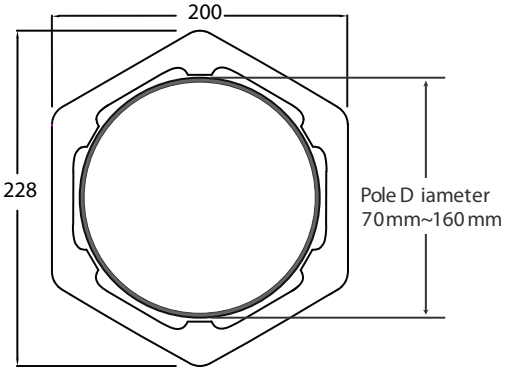
Model Number	SOLPOL 60
LED Power	60W / Philips SMD3030
Beam angle	140*70Degree
Liminous flux	>7000lm
CCT Temp.	3000K~6000K
CRI	>83
LED Type	Philips 90Pcs
IP Rating	IP67
Battery	Li(NiCoMn)O2
Power Capacity	635WH 12V
Woring Temp.	-15 ℃~+65 ℃
System Voltage	12V
Controller Type	MPPT IP65
Warranty	5 Years

SOLPOL 60W - PV Specifications

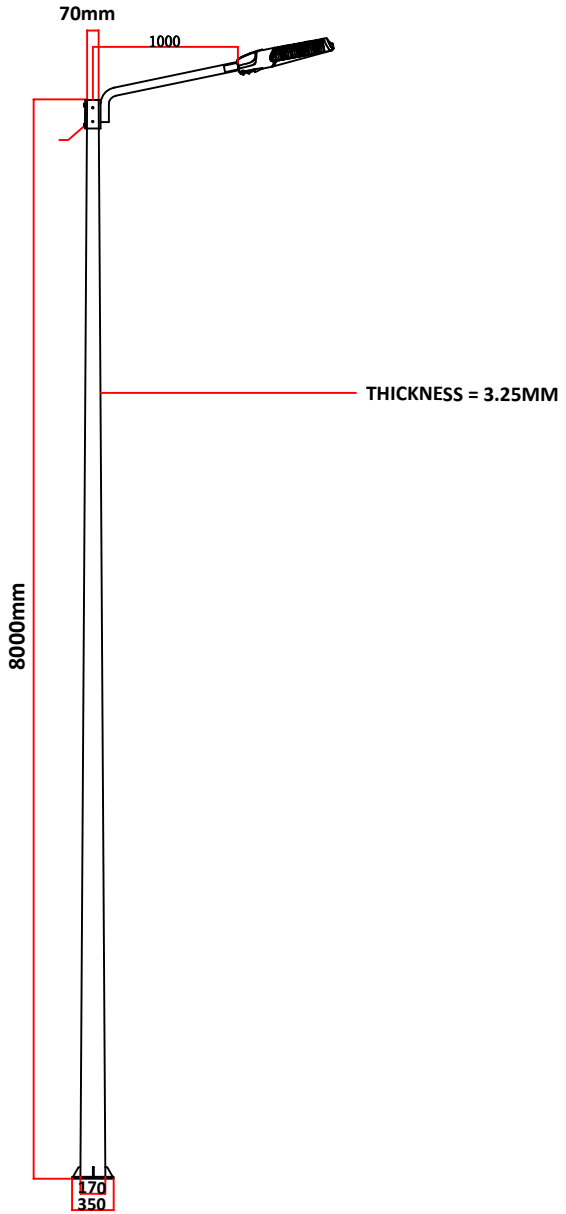
Model number	Q100
Cell type	Mono crystalline
Pmax	100W
Vmp	18V
Imp	5.56A
Material	Glass+tempered glass
IP Rate	IP65
Solar cell efficiency	>20.5%
Cable type	2.5mm2 with MC4
Operating temperature	-40℃ to +85℃
Warranty	5 years
Life time	>20 years
N. W	24.70 kgs
G. W	26.50 Kgs

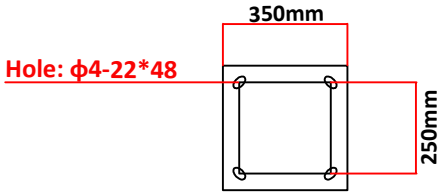




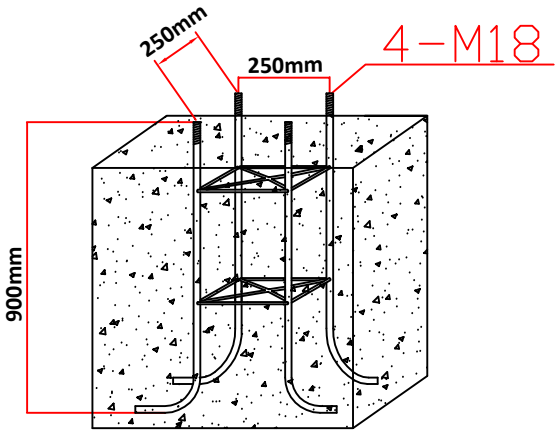


SOLPOL-60 - Pole Specifications





FLANGE THICKNESS = 16MM



Remote Control User Manual

Panel graphics

Sign instruction

						
Remote control energy	sending	Sent successfully	Sent failed	Test mode	Key lock	Key unlock

Key operate instruction

Key area	Key name		Functions	Press-and-hold functions
Setting area	+		A. Page down B. Increases setting value	A. Continuously increases setting value B. Together with "Sleep" key, locks or unlocks parameter adjustment
	-		A. Page up B. Decreases setting value	A. Continuously decreases setting value B. Together with "Sleep" key, returns the screen to the "Model Selection" interface
	Set		Sets parameters	-
Function area	Send		Sends operating parameters	-
	Receive	State	Receives operating state	-
		Parameter	Receives operating parameters	-
	Test		Sends test command	-
	Backlight		Turns on backlight	-
	Sleep		Sends sleep command	Together with "+" key, locks or unlocks parameter adjustment

Remote control Setting

First, check your solar led street/flood/batten light. We have two remote versions for the light with sensor or without sensor .

1.Solar Stree light with sensor

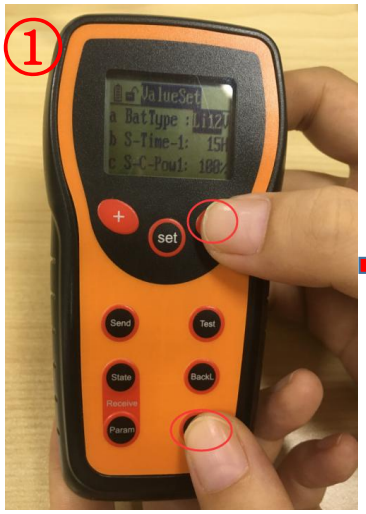
2.Solar Street light without sensor

3.Solar Flood light with sensor

4.Solar Flood light without sensor

5.Solar Batten light with sensor

No.	Remote Version Optional	What is the remote version of your Solar LED lights?	How to choose the remote version?
01.	**DH/LI/DL/MH**	1.Solar street light with sensor selects No.7 MES/SES version 2.Solar street light without sensor selects No.1 DH/Li/DL/MH version 3.Solar flood light with sensor selects No.7 MES/SES version 4.Solar flood light without sensor selects No.1 DH/Li/DL/MH version 5.Solar batten light with sensor selects No.7 MES/SES version	Click "-" and "slepp" button together for 3 second, and then you can see the 9 remote versions,like 01.DH/Li/DL/MH, 02.DHA/B/SESA... Pls select the right version based on your lights! You can check the process of choosing the version in the following pictures.
02.	DHA/B/SESA		
03.	DM60		
04.	MPC/MPL		
05.	DM120/DM160		
06.	SES60(old)		
07.	**MES/SES**		
08.	EH		
09.	SH		



Press “-”&”Sleep” button together for 3 seconds

Then we can see the page of ModSelect with 01.DH/Li/DL/MH; 0.2.... 07.MES/SES modes optional. Choose the right version based on your light.

After choosing the version, we can this such kind of page(ValueSet), then we can reset the working mode

Second, after selecing the remote version, we can reset the working mode if need. Here are two setting items tables

01.DH/DH-LI/DL/MH type, without microwave sensor function(PWM/MPPT)

Item	Brief Name	Data Range	Name describe	Step-length	Unit	Factory Default value
a	BatType	Lead, Li12,Li24	Battery type choosing, we choose Li12	1	Volt	Li12
b	1stTime	0 ~ 15H	The first working time, From 0 to 15 hours changeable	1H	Hour	4 hour
c	1stPower	0 ~ 100%	The first working time power	10%	Power (percentage)	100%
d	2ndTime	0 ~ 15H	The second working time	1H	Hour	4 hour
e	2ndPower	0 ~ 100%	The second working time power	10%	Power (percentage)	50%
f	3rdTime	0 ~ 15H	The third working time	1H	Hour	4 hour
g	3rdPower	0 ~ 100%	The third working time power	10%	Power (percentage)	30%
h	MorTime	0 ~ 15H	Morning light working time	1H	Hour	0 hour
i	MorPower	0 ~ 100%	Morning light working time power	10%	Power (percentage)	0%
j	L-Con-V	5 ~ 11V	Light control voltage	1V	Volt	7V
k	L-Con-DT	1 ~ 50Mins	Light control delay time	5M	Mins	30S
l	LED-Cur	0.15~ 6.0A	LED load current	0.03A	A	0.96A (to set the lamp power)
m	SmartPow	Yes/no	Smart power control	1	Yes：On No：Off	NO
n	Over-DV	7.5~16v	over-discharging protected voltage	0.1V	Volt	9.5V (Li(NiCoMn)O2battery /11V(LifePO4 battery)
o	Over-DRV	7.5~16v	over-discharging recover voltage	0.1V	Volt	10.5V (Li(NiCoMn)O2battery /12.8V(LifePO4 battery)
p	Boost-CV	7.5~16v	Over-charging voltage	0.1V	Volt	12.6V (Li(NiCoMn)O2battery /14.6V(LifePO4 battery)
q	Flot-CV	7.5~16v	over-charging recover voltage	0.1V	Volt	12V (Li(NiCoMn)O2battery /13.2V(LifePO4 battery)
r	Re-Defalt	Yes/no	Restore factory default values	1	Yes：On No: Off	No

If want to change the working modes setting, please change only these itmes for the working hours and brightness. PIs also contact with factory if you do not know how to changing this working mode.

07.MES/SES Model-with Microwave Sensor PWM/MPPT Controller Setting Manual

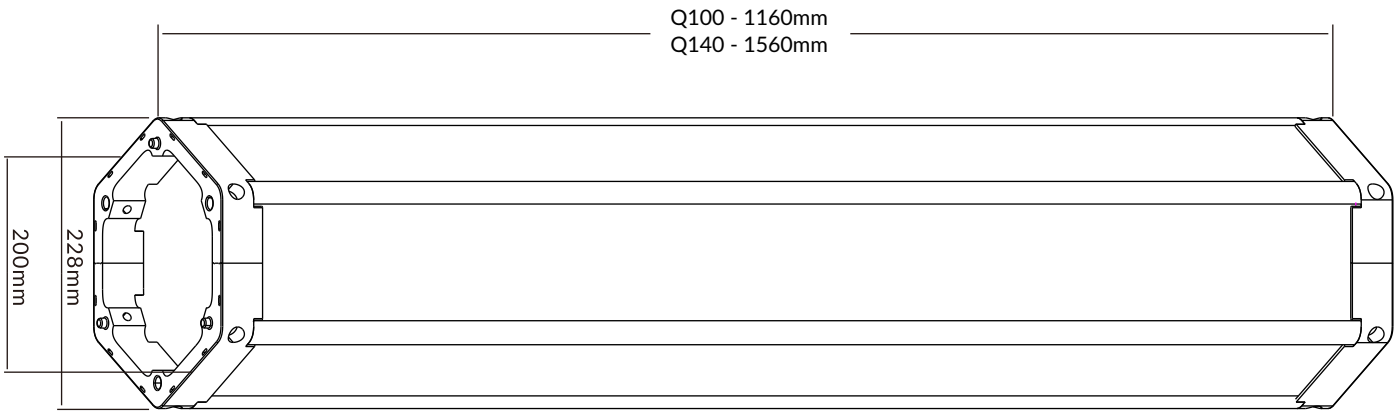
Item	Brief Name	Data Range	Name describe	Step-length	Unit	Factory Default value
a	Bat Type	Li12,Li24	Battery type choosing	1	Volt	Li12
b	S-Time-1	0 ~ 15H	The first Sentitive time	1H	Hour	3 hours
c	S-C-Power1	0 ~ 100%	The first Sentitive power(when people come)	0.1	Power (percentage)	100%
d	S-L-Power1	0 ~ 100%	The first Sentitive power(after people leave)	0.1	Power (percentage)	100%
e	S-Time-2	0 ~ 15H	The second Sentitive time	0.1	Hour	4 hours
f	S-C-Power2	0 ~ 100%	The second Sentitive power(when people come)	0.1	Power (percentage)	80%
g	S-L-Power2	0 ~ 100%	The second Sentitive power(after people leave)	0.1	Power (percentage)	50%
h	S-Time-3	0 ~ 15H	The third Sentitive time	1H	Hour	5 hours
i	S-C-Power3	0 ~ 100%	The third Sentitive power(when people come)	0.1	Power (percentage)	50%
j	S-L-Power3	0 ~ 100%	The third Sentitive power(after people leave)	0.1	Power (percentage)	30%
k	S-D-Time	1 ~ 250S	Sentitive dalay time	10S	Seconds	30S
l	L—Con-V	5~11V	Light control voltage	1V	Volt	7V
m	L-Con-DT	1~50Mins	Light control delay time	5M	Mins	0min
n	LED-Cur	0.15~3.42A	LED load current	0.03A	A	0.72A (to set the lamp power)
o	SmartPow	0~1	Smart power control	1	Yes：On No：Off	No
p	0°C Chg-P	Yes/No	0°C charging protection	1	Yes：On No：Off	No
q	Chg-Mode	PWM/DC	Charging model control	1	PWM：PWM Charging DC：Direct Charging	0
r	Over-DV	7.5 ~ 17.0V	over-discharging protected voltage	0.1V	Volt	9.5V (Li(NiCoMn)O2battery /11V(LifePO4 battery)
s	Over-DRV	7.5 ~ 17.0V	over-discharging recover voltage	0.1V	Volt	10.5V (Li(NiCoMn)O2battery /12.8V(LifePO4 battery)
t	Over-CV	7.5 ~ 17.0V	over-charging voltage	0.1V	Volt	12.6V (Li(NiCoMn)O2battery /14.6V(LifePO4 battery)
u	Over-CRV	7.5 ~ 17.0V	over-charging recover voltage	0.1V	Volt	12V (Li(NiCoMn)O2battery /13.2V(LifePO4 battery)
v	Re-Def lt	Yes/No	Restore factory default values	1	Yes：On No: Off	NO

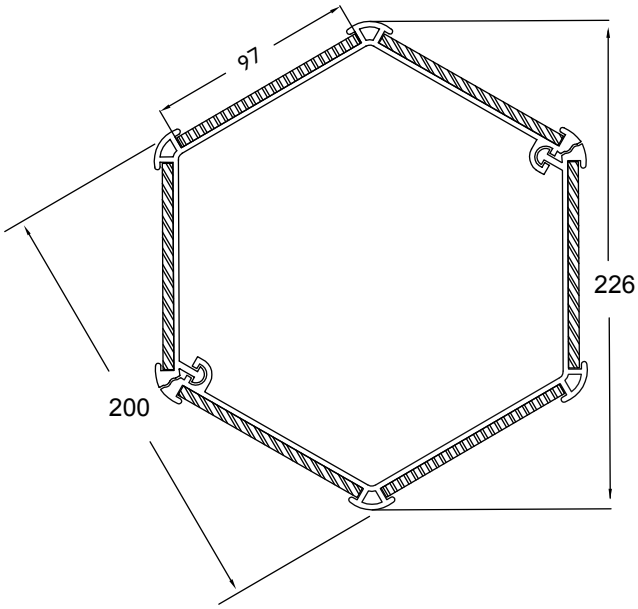
If want to change the working modes setting, please change only these itmes for the working hours and brightness. Pls also contact with factory if you do not know how to changing this working mode.

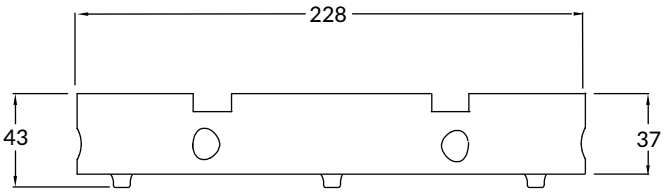
INSTALLATION MANUAL

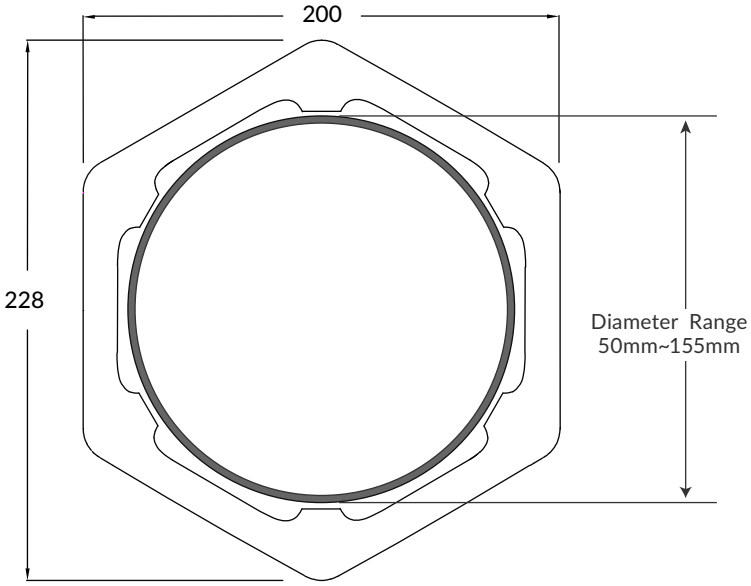
Verision :2019~2020

Materials in Package









Unit : mm

Materials in Package

1: Master Module
Qty : 1 Pc

2: Sub Module
Qty : 1 Pc

3: MC4 Adapter
Qty : 1 Pair

5: M8 Set Screws
Qty : 12 Pcs

4: Fixing Holder
Qty : 2 Pairs

MC4 Male connector

MC4 Female connector

Mini Male connector

Mini Female connector

Remark:

1 : All MC4 **male** connector (including master and sub modules) are **positive 18/36V+.**
And all MC4 **female** connector (including master and sub modules) are **negative 18/36V-.**

2 : The type of MC4 connectors at two sides of **MASTER MODULE** are exactly same. That is to say: you can use either of two sides to connect to the all in two solar light head or other device in the same way as using regular solar panel.

3 : MC4 adapters must be used between two solar cylinders.

4 : One mini male connector of master moduler is **positive 18/36V+.** The other side is **negative 18/36V-. THEN** accordingly : One mini female connector of sub moduler is **Negative 18/36V-.** And the other mini female connectoron the other side is **positive 18/36V+.**
(The polarity mini connectors between sub module and master module are contrary.)

5 : **ALL** mini male and female connectors between sub module and master module should be connected to complete the whole system connection.

Required Tools

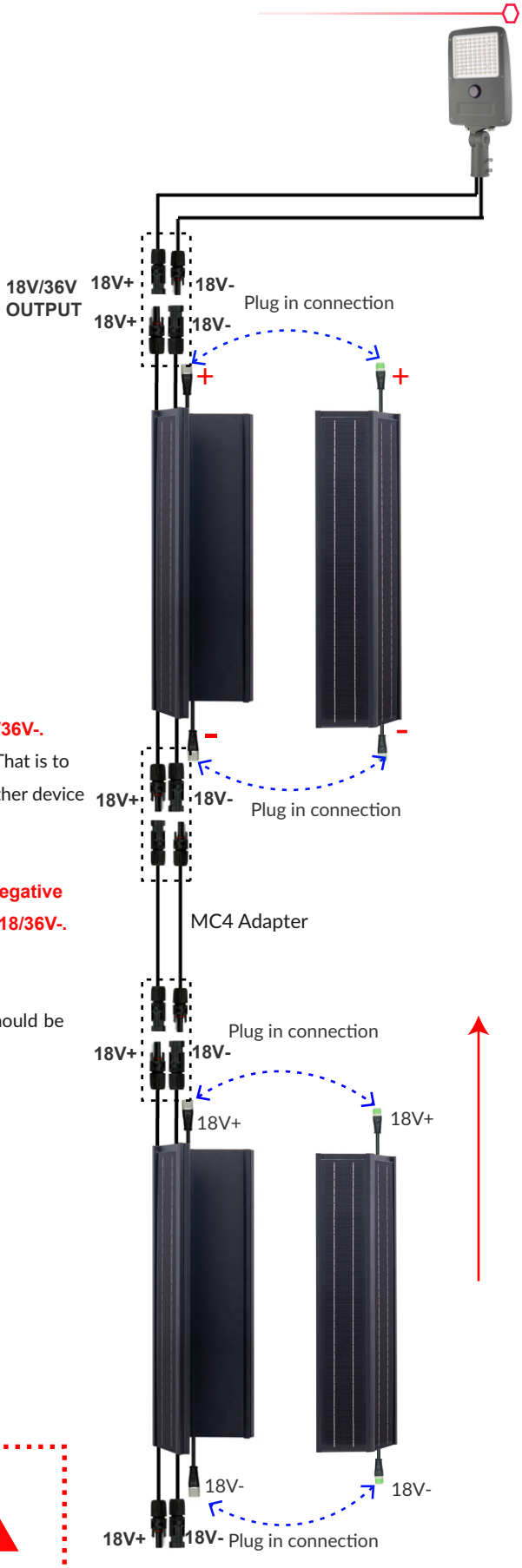
Electric Allen Wrench
for M8 set screws

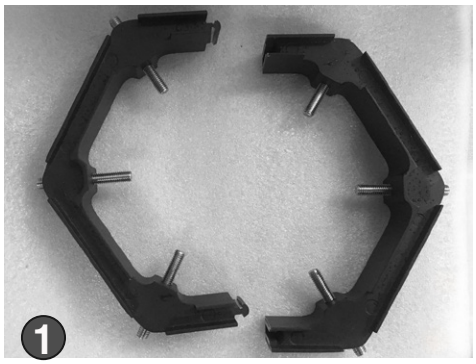
OR

Allen Wrench
for M8 set screws

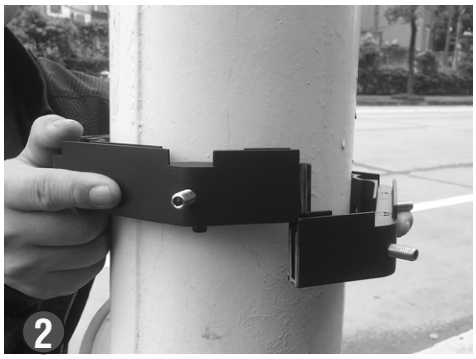
VERY IMPORTANT :
DO NOT CONNECT the MC4 male and female connector of the LAST MODULE.
Just leave them there or cut the connectors off.

Connection Between Modules



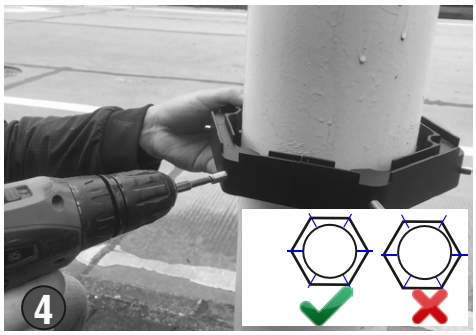


Use the screw driver to fix the screws into the modular bracket at the proper position according to the diameter of the part of the pole where the modular brackets to be mounted.



Buckle the modular brackets on the pole, and Lock the two parts as one unit, make sure two parts are at same level **(VERY IMPORTANT).**

Connect the two parts of brackets and make the junction area flat and without any tilt. This step is very important. or the module will be tilted.

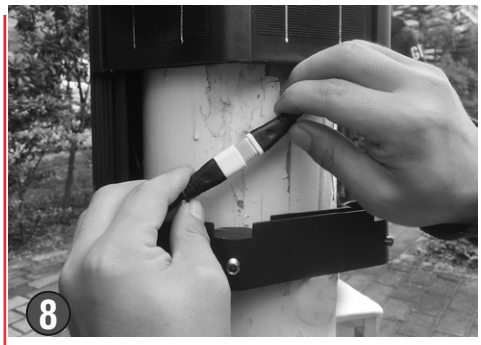


Fasten the 6 pieces of screws with driver, make sure the pole is in the exact middle of the brackets.

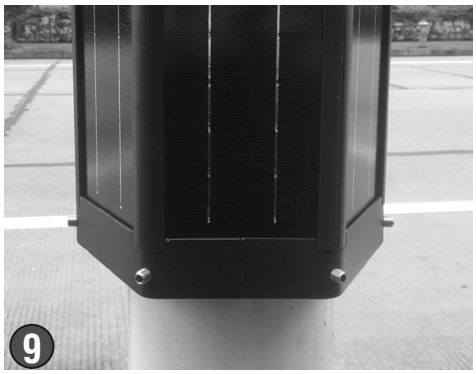
Make sure the brackets are mounted very tight and strong enough, **it can hold 50KG.**

Put the first master module on the brackets in the right position.

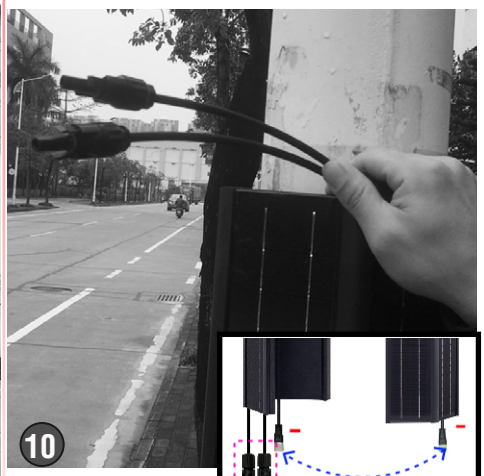
With another person's help, Install the sub module from the top of master module, and slide down the sub module carefully, but hold it when sub module reaches the brackets with 20cm distance.



Connect the male and female mini connectors between sub module and master module.

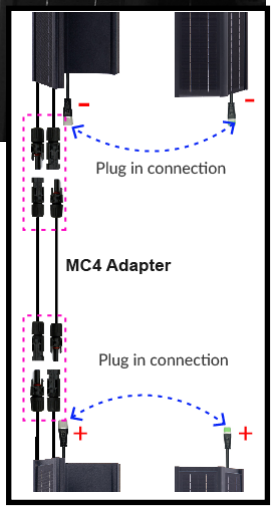


After connetion of the cables of last step, put down the sub module carefully, and put the two modules on the brackets at the best position.

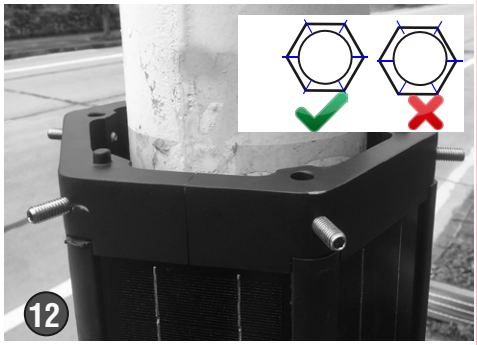


Take out the two MC4 cables from the master module carefully, and connect the MC4 adapter to this MC4 connectors.

Please check the wiring diagram for the details.



Put **second** brackets over the module in opposite direction to the bottom brackets. Install it in the same way as installing the first brackets.



Adjust the position of the brackets at the best position. Similarly, let the pole in the middle of the hexagon brackets.

Fasten the 6 pieces screws with driver carefully.

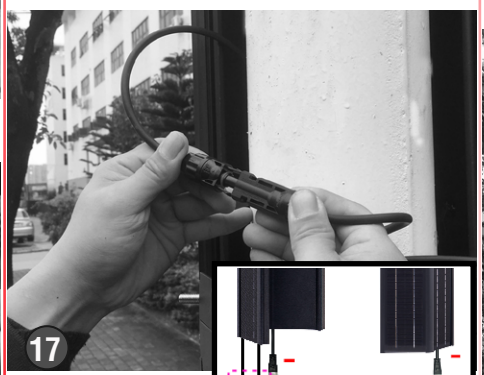
Put the third brackets over the second brackets, and take out the two MC4 cables of first modules through the third brackets.

NOTE :

Let the two brackets fit snugly through the three positioning holes.

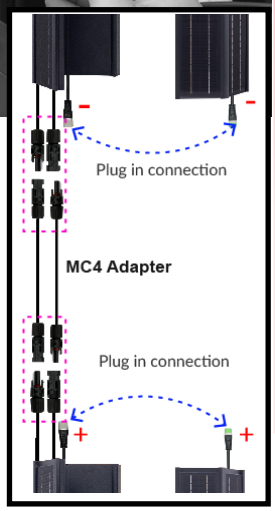
Make sure the two MC4 cables are outside through the third brackets. (Ready to install the next modules.)

Put the second master module on the bracket in the same way as 6 mentioned



Connect the first module to the second module by MC4 plugs directly.

PLUG IN. EASY OPERATION



Connect the MC4 connectors and put it back inside of the module tube. (It will be invisible frm outiside.)

Put the second sub module on the bracket in the same way as 7 mentioned.

Repeat the operations as 8 9 10 to complete the pending installation.

Finally connect the last two MC4 connectors on top of pole to solar light head directly.