

REDA SOLAR

RENEWABLE - OUTDOOR AREA LIGHTING

12-48W

2 YEARS
50.000 HRS
1000 CYCLES

Solar, smart and sustainable Outdoor Area Lighting

- ▶ Autonomy: more than 4 days
- ▶ 5 different intensities
- ▶ 3 CCTs available
- ▶ MPPT / PWM charger. High charging efficiency ensures power generated for every night
- ▶ Specially treated for rough outdoor conditions and IP67
- ▶ Programmable via remote (72 modes)



FEATURES & BENEFITS

- ▶ Truly built for outdoors: water-ingression IP67 and special treatments to keep it like new during its long lifetime
- ▶ Choose between 5 different intensities: from 1500 to 5500 lumens
- ▶ Very high energy savings due to solar powered and system efficiency up to 125 lm/W
- ▶ Compact system
- ▶ Independent, remote, solar panel
- ▶ Long distance installation from panel to Luminaire, up to 10 mtrs with extension
- ▶ Microwave sensor built in
- ▶ Programmable: 72 Variable Lighting Modes can be chosen via remote control after installation
- ▶ Easy connection
- ▶ Autonomy: More than 4 days on e-saving mode or 12hrs at full power
- ▶ Operating Ambient Temperature: -20 °C ~ +65 °C

TECHNICAL PERFORMANCES

Code	Designation	LED power (W)	Lumen output (lm)	Efficiency (lm/W)	Color Temp (K)	Beam Angle (°)	Housing	Net Weight (Kg/ lb)
NC	REDA SOLAR 600mm 1500lm 12W 6000K IP67	12	1500	125	5700-6300	120	White PC	2,26/4,98
21580004	REDA SOLAR 600mm 1500lm 12W 4000K IP67	12	1500	125	3700-4300	120	White PC	2,26/4,98
21580005	REDA SOLAR 600mm 1500lm 12W 3000K IP67	12	1500	125	2700-3300	120	White PC	2,26/4,98
NC	REDA SOLAR 600mm 2200lm 18W 6000K IP67	18	2200	122	5700-6300	120	White PC	3,09/6,81
NC	REDA SOLAR 600mm 2200lm 18W 4000K IP67	18	2200	122	3700-4300	120	White PC	3,09/6,81
NC	REDA SOLAR 600mm 2200lm 18W 3000K IP67	18	2200	122	2700-3300	120	White PC	3,09/6,81
NC	REDA SOLAR 900mm 3000lm 24W 6000K IP67	24	3000	125	5700-6300	120	White PC	4,02/8,86
21580006	REDA SOLAR 900mm 3000lm 24W 4000K IP67	24	3000	125	3700-4300	120	White PC	4,02/8,86
NC	REDA SOLAR 900mm 3000lm 24W 3000K IP67	24	3000	125	2700-3300	120	White PC	4,02/8,86
NC	REDA SOLAR 900mm 4200lm 36W 6000K IP67	36	4200	117	5700-6300	120	White PC	4,46/9,83
NC	REDA SOLAR 900mm 4200lm 36W 4000K IP67	36	4200	117	3700-4300	120	White PC	4,46/9,83
NC	REDA SOLAR 900mm 4200lm 36W 3000K IP67	36	4200	117	2700-3300	120	White PC	4,46/9,83
NC	REDA SOLAR 1200mm 5500lm 48W 6000K IP67	48	5500	115	5700-6300	120	White PC	5,87/12,94
21580007	REDA SOLAR 1200mm 5500lm 48W 4000K IP67	48	5500	115	3700-4300	120	White PC	5,87/12,94
NC	REDA SOLAR 1200mm 5500lm 48W 3000K IP67	48	5500	115	2700-3300	120	White PC	5,87/12,94

NORMS & CERTIFICATES

- ▶ EN 55015:2013+A1:2015
- ▶ EN 61547:2009
- ▶ IEC 60598-1:2014
- ▶ IEC 62262
- ▶ IEC 62321-3-1:2013
- ▶ IEC 62321-5:2013
- ▶ IEC 62321-4:2013
- ▶ IEC 62321-6:2015
- ▶ IEC 62321-7-1:2015
- ▶ IEC 62321:2008 ANNEX C

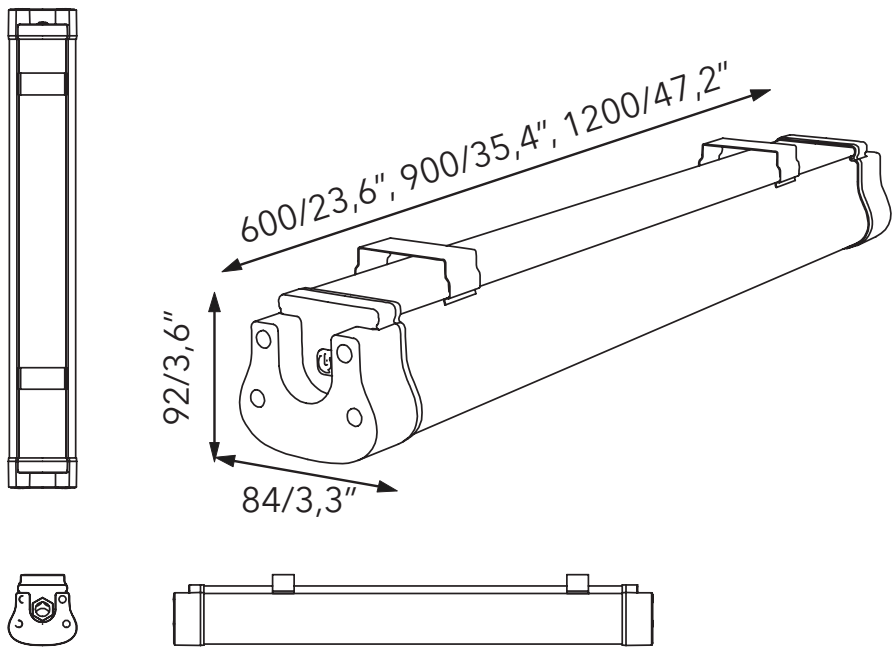


LIFETIME & WARRANTY

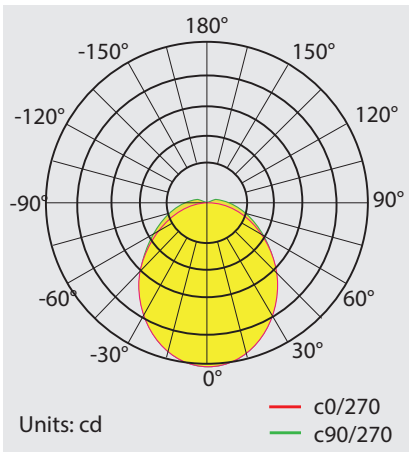
- ▶ Warranty : 2 years for NCM battery
- ▶ Lifetime : 50.000 hrs for LED luminaires
- ▶ 1000 cycles for NCM battery product

**Tolerance range for optical and electrical data: ±15 %.*

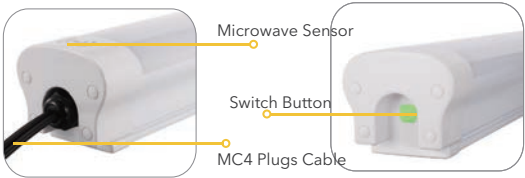
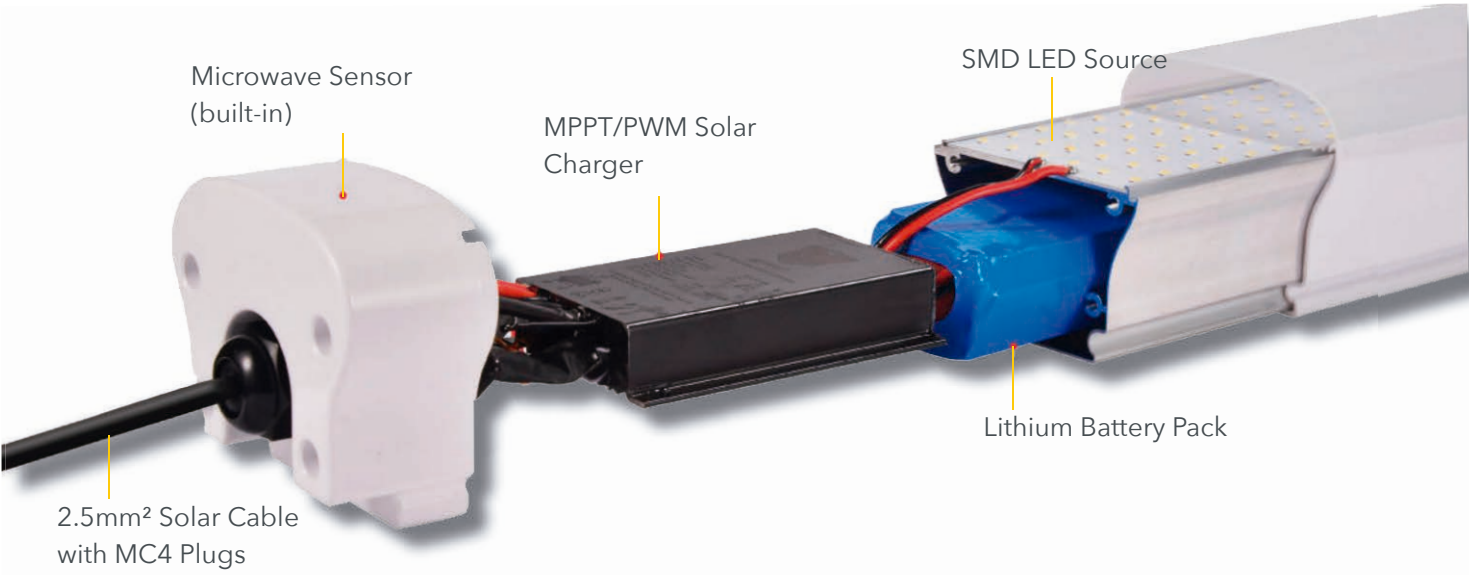
DIMENSIONS



LIGHT DISTRIBUTION



DETAILS VIEW



Remote
Setting



Microwave
Sensor Optional



MC4 Plugs
Connection



Lithium
Battery



12Hrs/Day
125LM/W



Bill Free



Green Energy



Bug Free



Rechargeable



Eco Friendly

SOLAR PANEL

Cable Distance:

Standard distance from solar panel and REDA Solar is 2.7m

REDA cable 2m + 0.7m Solar Panel cable.

If need longer distance, cable could be customized but maximum will always be 10m.

Installation Angle:

Depending of the latitude of the location where it will be installed then add 10° more.

Direction:

The direction of the panel should be the one that gets the most sun energy; normally facing South. Please consult us.

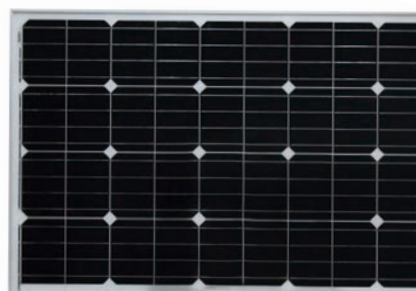
Cleaning:

Please make sure that surface of the panel is clean.

Dust on the panel could decrease the charging efficiency.

Code	Designation	Size (cm)	Size (ft)	Surface (m2)
21580008	SOLAR PANEL 40W 18V IP67	67x42x2,5	2,2x1,4x0,08	0.28
21580040	SOLAR PANEL 50W 18V IP67	70x53,5x2,5	2,3x1,75x0,08	0.37
21580009	SOLAR PANEL 60W 18V IP67	67x59x2,5	2,2x1,94x0,08	0.39
21580041	SOLAR PANEL 70W 18V IP67	68x67x3	2,23x2,2x0,1	0.45
21580016	SOLAR PANEL 80W 18V IP67	76x67x3	2,5x2,2x0,1	0.51
21580042	SOLAR PANEL 90W 18V IP67	85x67x3	2,8x2,2x0,1	0.57
21580010	SOLAR PANEL 100W 18V IP67	100x67x3,5	3,28x2,2x0,1	0.67
21580043	SOLAR PANEL 110W 18V IP67	100x67x3,5	3,28x2,2x0,1	0.67
21580012	SOLAR PANEL 120W 18V IP67	104x67x3,5	3,4x2,2x0,1	0.69

*Tolerance range for optical and electrical data: ±15 %.



CHARGING TIME

Below table will give you the autonomy if the REDA Solar is light set at 100% all the time.

With the remote we can define different modes that increase the autonomy up to 3 days.

Please check the Remote manual to see the the different modes available.

REDA Solar NCM Battery			Charge time for:								
Charge and Discharge information	Battery Capacity	Discharge Time (Hours)	Solar Panel 18V 30W (Hours)	Solar Panel 18V 40W (Hours)	Solar Panel 18V 50W (Hours)	Solar Panel 18V 60W (Hours)	Solar Panel 18V 70W (Hours)	Solar Panel 18V 80W (Hours)	Solar Panel 18V 90W (Hours)	Solar Panel 18V 100W (Hours)	Solar Panel 18V 110W (Hours)
12W	144WH 12V	11.40	7.38	5.54	4.43	3.69	3.16	2.77	2.46	2.22	2.01
18W	216WH 12V	10.80	11.08	8.31	6.65	5.54	4.75	4.15	3.69	3.32	3.02
24W	288WH 12V	11.40	10.11	7.58	6.06	5.05	4.33	3.79	3.37	3.03	2.76
36W	396WH 12V	10.45	13.89	10.42	8.34	6.95	5.95	5.21	4.63	4.17	3.79
48W	528WH 12V	10.45	18.53	13.89	11.11	9.54	8.23	7.28	6.50	5.94	5.45

Note: Above discharge times are for 100% on; in energy saving mode, such as 3 hours 100%, 4hours 50%, 5 hours 30%, it will last longer.

ACCESSORIES

Code	Designation
-	Remote Control
21580013	Installation bracket Grey For Solar Panel
-	MC4 plugs cable 2M

Installation bracket



MC4 plugs cable 2M



Remote Control



REMOTE FUNCTION



Magic Remote Control Manual

The magic remote control is specially developed for solar luminaries. It offers a combination of many lighting modes to satisfy a wide variety of different lighting applications. In addition to allowing users to easily set the power @ 20%, 40%, 60% or 100%, it also changes the lighting time from 1 hour to 12 hours. It comes with 4 different lighting modes (A, B, C and D) built-in. Users can set their own lighting mode, and press the button of Time zone to set the time. This remote also supports lighting during the day time while the luminaire is being charged by solar panel. It even works for indoor lighting perfectly.



ON/OFF override button. 100% Light Output



Auto Function (Not Used). By Default Auto Function is programmed ON. (Auto OFF During Day, Auto ON During Night)



Test Function. Light will operate for 20 seconds.
- The red indicator light will operate inside the end-cap if the battery is low / over-discharged.



Constant light mode

- Amount of Light output depends on the percentage selection.
- By default the light will operate for 12 Hours.
* Helpful Hint.
Select a Time Setting (e.g. 4H) within 5 seconds to modify the default operating time.



Light Output 0%. When sensor triggered - Light Output 100% for 1 minute.



Light Output 30%. When sensor triggered - Light Output 100% for 1 minute



Light Output 50%. When sensor triggered - Light Output 100% for 1 minute.

- By default the light will operate for 12 Hours.
* Helpful Hint. Select a Time Setting (e.g. 9H) within 5 seconds to modify the default operating time.



Light Output 100% (First 6 hrs). Light Output 50% (Second 6 hrs) - When sensor is triggered - Light Output 100% for 1 minute.
* Helpful Hint. Press "D" and a Time Setting (e.g. 7H) = 100% for 3.5 hours then 50% for next 3.5 hours + 100% with sensor.



Time Setting mode

- Light Duration based on selection.
* Helpful Hint.
- Select 20% then 4H. Light will operate at 20% for 4 Hours.
- Select C then 8H. Light will operate at 50% for 8 Hours + 100% if sensor triggered.
- Select D then 3H. Operate at 100% for 1.5 Hours, 50% for 1.5 Hours + 100% with sensor.



5-6-7-8-9 are similar time function as 1-2-3-4....

APPLICATION

► Solar batten lights are capable of meeting many applications and challenging solar lighting requirements with extremely easy installation. It is a perfect solution for many outdoor applications such as shelters, warehouses, temporary shelters, outdoor kiosks, street kiosks, camping kiosks, boats or any remote location where electricity is a challenge. Power and length of the lights can be customized to meet different project requirements as well.



PACKAGING

	Type	SIZE - LxWxH (cm)	SIZE - LxWxH (ft)	Weight (Kg)	Weight (lb)	Nb of Pcs / box
Carton	REDA SOLAR 12W	68x37x26	2,2x1,2x0,8	17,04	37,6	6
	REDA SOLAR 18W	69x38x26	2,2x1,2x0,8	22,20	48,9	6
	REDA SOLAR 24W	99x37x26	3,2x1,2x0,8	26,76	59,0	6
	REDA SOLAR 36W	99x37x26	3,2x1,2x0,8	28,68	63,2	6
	REDA SOLAR 48W	127x26x26	4,1x0,8x0,8	25,40	56,0	4
	SOLAR PANEL 40W	71x25x48	2,3x0,8x1,6	19,53	43,1	5
	SOLAR PANEL 50W	76x32x60	2,5x1,0x2,0	26,05	57,4	5
	SOLAR PANEL 60W	73x26x65	2,4x0,8x2,1	28,60	63,1	5
	SOLAR PANEL 70W	80x23x71	2,6x0,75x2,3	33,50	73,9	5
	SOLAR PANEL 80W	82x28x73	2,7x0,9x2,4	36,70	80,9	5
	SOLAR PANEL 90W	82x28x73	2,7x0,9x2,4	40,00	88,2	5
	SOLAR PANEL 100W	104x25x74	3,4x0,8x2,4	45,00	99,2	5
	SOLAR PANEL 110W	122x25x72	4,0x0,8x2,3	44,20	97,4	5
	SOLAR PANEL 120W	110x25x73	3,6x0,8x2,4	46,30	102,1	5

