

Advantage

Sensor

'Smart eye' Motion Sensor Built-in Passive Infrared Motion Sensor automatically regulates light output.

2 LED Lamp

130lm-150lm/W super bright LED

3 Power Management Controller

Regulates and protects power to lamp and battery packs.

Battery

New generation Lithium iron batteries offers 3 times more storage and power capacity versus traditional Lead Acid batteries. Acid batteries.

Solar Module

Mono Crystalline Silicon P.V Module, highly efficient and tolerant to heat providing more output on a smaller footprint.

6 Long working time

30 hours long continue lighting

THE ALL-IN-ONE ADVANTAGE

All-in-one solar street light which integrates

the green-energy parts solar panel, LED lamp and the
Lithium battery into a single product, is with human
intelligence induction system to gain the solution of
low-energy, long-time, high-luminance and free
maintenance. And the same time, it's convenient in the
shipment and installation.









SunMaster All in one series

LIGHTING THE WAY

Built specifically to illuminate a wide range of applications, is the world's most versatile and compact LED solar lighting system. Its clever design and slim-line construction incorporates the latest solar power and LED technology, providing many years of consistent performance and operational reliability.

BUILT TO LAST

Has been designed to withstand the harshest and most extreme environments has to offer; From blistering heat to driving rain, hail and sub-zero temperatures. Whatever the environment is, SunMaster rugged construction is up for the challenge. Its internal components offer IP65 weather protection and its external components are built with marine grade aluminium and stainless steel fixings.

UNIQUE PROPERTIES

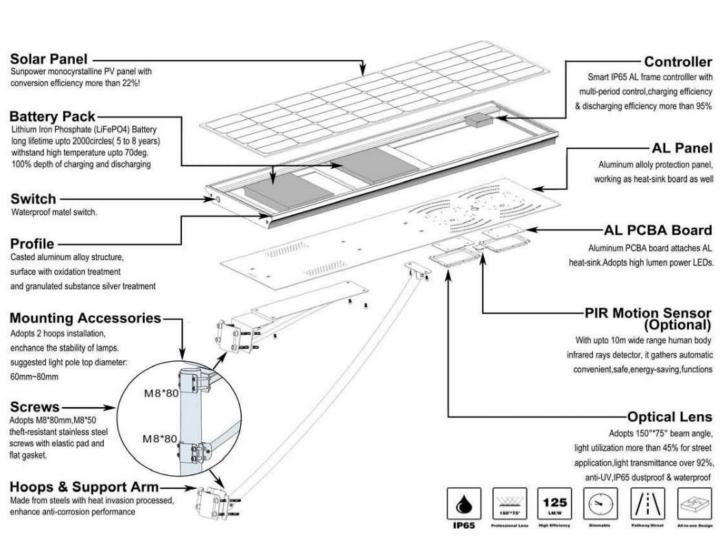
- · 'All-In-One' solar module = Easy installation
- Plug & Play wiring = Fast installation
- Lithium battery technology offers up to 4 times more discharge capacity over Lead Acid types and 3 times more cycle life
- Tamper and Theft proof design
- Automated LED output options for greater battery autonomy
- · Customer replacement components

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The Most Engaging All-in-one Solar Street Light

Now Enhanced By The World's Most Powerful Features!

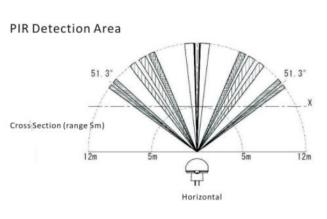


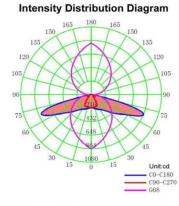
MG-LN-15W

Cost Effective Solar Lighting Solution



INTEGRATED SOLAR G	GARDEN LIGHT (15W)		
Solar Panel	Max Power	18v 30W (High efciency monocrystalline	
	Life time	>25 years	
Battery	Туре	Lithium battery(LiFeP04)12Ah	
	Life time	> 5 years	
LED Lamp	Max power	12V 15W	
(With sensor)	Led chip brand	USA Bridgelux LED Chip 45x45mil 160-170lm/w	
	Lumen (LM)	1650-1800lm	
	Life Time	> 50000 hours	
	Viewing Angle	120°	
Charge time	By Sun	6-10 hours	
Discharge time	Saving power	more than 30 hours	
Working temperature	Range(°C)	-20°C ~ +70°C	
Colour temperature	Range (k)	6000k	
Mounting height	Range (m)	4-5 m GREEN EN	NERGY
Space between light	Range (m)	10-15 m	LUGY
Lamps material of main	Aluminium alloy		
Certificate	CE / ROHS / IP65		
Warranty Period	3 years (5years warranty av	vailable with extra cost)	
Packing & Weight	Product size	710*350*55 mm	
	Product weight	8.0 kg	
	Packing size	720*420*165 mm	







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Specifications

DIANO

MG-MN-20W

Cost Effective Solar Lighting Solution





Specifications .			
Charging Time	6-8 hours by sun		
Discharging Time	>36hours (operated by motion sensor)		
	Backup 3days		
Working Temperature	-20°C- 70°C		
Mounting Height	4-5m (suggested)		
Space between light	12-15m (suggested)		
Housing material	Aluminum alloy		

Photovoltaics	
Module	Monocrystaline silicium cells
Open circuit voltage Voc	22.5V
max. voltage Umpp	18V
Short circuit current Isc	3.17A
max. current Imp	2.78A
max. power Pmax	50W
Tolerance Pmpp	0 to +3%
Dimensions module	898×273mm
Level of effectiveness of solar cells (moulded)	>17.8%

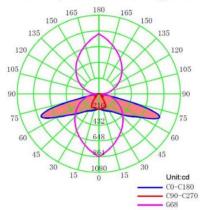
Illuminant		
LED max. output	20W	
LED max. light flux	2200-2400lm	
Colour temperature	5.600k to 6.500k	
Autonomous time with full battery max.	36h	
LED life	>50,000h	
State-of-the-art LED	Insect-neutral light	

Battery		
capacity	Lithium battery(LiFeP04)18Ah/12.8v	
voltage	12V	
Battery life	approx.5-6 year	
Operating temperature	-20°C~+70°C	
Miscellaneous	Battery also charges on cloudy days	

Cross Section (range Sm) 12m 5m 5m 12m Horizontal

PIR Detection Area

Intensity Distribution Diagram





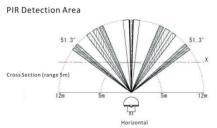
MG-LN-25W

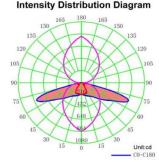
Cost Effective Solar Lighting Solution





INTEGRATED SOLAR C	GARDEN LIGHT (25W)	MODEL SMLN-25W	
Solar Panel	Max Power	18v 60W (monocrystalline silicon)	
	Life time	>25 years	
Battery	Туре	Lithium battery(LiFeP04) 21Ah	
	Lifetime	> 5 years	
LED Lamp	Max power	12V 25W	
(With sensor)	Led chip brand	USA Bridgelux LED Chip	45x45mil 160-170lm/w
	Lumen (LM)	2750-3000lm	
	Life Time	> 50000 hours	
	Wiewing Angle	120°	
Charge time	By Sun	6-10 hours	
Discharge time	Full power	more than 15 hours	
	Saving mode	more than 30 hours	
Working temperature	Range(°C)	-20°C ~ +70°C	GREEN ENERGY
Colour temperature	Range (k)	6000k	TECHNOLOGY
Mounting height	Range (m)	6-7 m	
Space between light	Range (m)	18-20 m	
Lamps material of main	Aluminium alloy		
Certificate	CE / ROHS / IP65		
Warranty Period	3 years (5years warranty av	ailable with extra cost)	
Packing & Weight	Product size	1170*330*145 mm	
	Product weight	17 kg	
	Packing size	1200*410*230 mm	
		ity Distribution Diagram	# 1







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Specifications

Housing material

LED max. output

LED max. light flux

Colour temperature

Autonomous time with full battery max.

MG-LN-30W

Cost Effective Solar Lighting Solution







Specifications		
Charging Time	6-10 hours by sun	
Discharging Time	Full Power >12hours	
	Saving mode 3-5 days	
Working Temperature	-20°C- 60°C	
Mounting Height	6-7m (suggested)	
Space between light	18-20m (suggested)	

Aluminum alloy

Photovoltaics	
Module	Monocrystaline silicium cells
Open circuit voltage Voc	22.5V
max. voltage Umpp	18V
Short circuit current Isc	1.87A
max. current Imp	1.69A
max. power Pmax	60W
Tolerance Pmpp	± 3%
Dimensions module	1148×265mm
Level of effectiveness of solar cells (moulded)	17%
Illuminant	

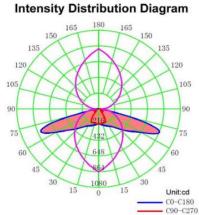
30W

45h

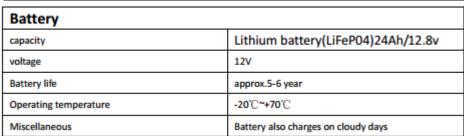
3300-3600lm

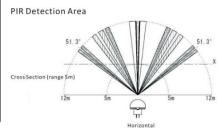
5.600k to 6.500k

LED life	>50,000h	
State-of-the-art LED	Insect-neutral light	
Battery		
capacity	Lithium battery(LiFeP04)24Ah/12.8v	
voltage 12V		
Battery life	pprox.5-6 year	









MG-LN-40W

Cost Effective Solar Lighting Solution





Illuminant	<u> </u>
LED max. output	40W
LED max. light flux	4400-4800lm
Colour temperature	5.600k to 6.500k
Autonomous time with full battery max.	45h
LED life	>50,000h
State-of-the-art LED	Insect-neutral light

Photovoltaics		
Module	Monocrystaline silicium cells	
Open circuit voltage Voc	22.5V	
max. voltage Umpp	18V	
Short circuit current Isc	2.50A	
max. current Imp	2.22A	
max. power Pmax	60W	
Tolerance Pmpp	±3%	
Dimensions module	1148×265mm	
Level of effectiveness of solar cells	17%	
(moulded)		

Intensity Distribution Diagram - C0-C180 - C90-C270

PIR Detection	Area	-	1		
Cross Section (range	51. 3°				51. 3°
1	2m	5m	Horizon	5m	12m

Battery	
capacity	Lithium battery(LiFeP04)27Ah/12.8v
voltage	12V
Battery life	approx.5-6 year
Operating temperature	-20°C~+70°C
Miscellaneous	Battery also charges on cloudy days

Others	
Charging Time	6-10 hours by sun
Discharging Time	Full Power >12hours
	Saving mode 3-5 days
Working Temperature	-20°C- 60°C
Mounting Height	6-7m (suggested)
Space between light	18-20m (suggested)
Housing material	Aluminum alloy



MG-LN-50W

Cost Effective Solar Lighting Solution

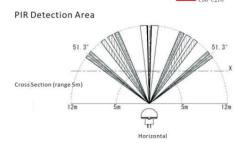


Battery	
capacity	Lithium
	battery(LiFeP04)33Ah/12.8v
voltage	12V
Battery life	approx.5-6 year
Operating temperature	-20℃~+70℃
Miscellaneous	Battery also charges on cloudy days

Illuminant	
LED max. output	50W
LED max. light flux	5000-5500lm
Colour temperature	5.600k to 6.500k
Autonomous time with full battery max.	36h
LED life	>50,000h
State-of-the-art LED	Insect-neutral light

Photovoltaics	
Module	Monocrystaline silicium cells
Open circuit voltage Voc	22.5V
max. voltage Umpp	18V
Short circuit current Isc	4.85A
max. current Imp	4.45A
max. power Pmax	80W
Tolerance Pmpp	0 to +3%
Dimensions module	1070×397mm
Level of effectiveness of solar cells (moulded)	>17.8%







Others

Others	
Charging Time	6-8 hours by sun
Discharging Time	>36hours (operated by motion sensor)
	Backup 3days
Working Temperature	-20°C− 70°C
Mounting Height	5-7m (suggested)
Space between light	15-22m (suggested)
Housing material	Aluminum alloy

MG-LN-60W

Cost Effective Solar Lighting Solution

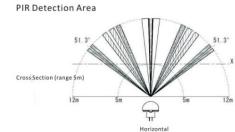


Battery	
capacity	Lithium battery(LiFeP04)42Ah/12.8v
voltage	12V
Battery life	approx.5-6 year
Operating temperature	-20°C~+70°C
Miscellaneous	Battery also charges on cloudy days

Illuminant	
LED max. output	60W
LED max. light flux	6600-7200lm
Colour temperature	5.600k to 6.500k
Autonomous time with full battery max.	36h
LED life	>50,000h
State-of-the-art LED	Insect-neutral light

Photovoltaics	
Module	Monocrystaline silicium cells
Open circuit voltage Voc	22.5V
max. voltage Umpp	18V
Short circuit current Isc	5.57A
max. current Imp	5.0A
max. power Pmax	90W
Tolerance Pmpp	0 to +3%
Dimensions module	1070×397mm
Level of effectiveness of solar cells (moulded)	>17.8%

Others	
Charging Time	6-8 hours by sun
Discharging Time	>36hours (operated by motion sensor)
	Backup 3days
Working Temperature	-20℃- 70℃
Mounting Height	5-8m (suggested)
Space between light	15-25m (suggested)
Housing material	Aluminum alloy





MG-LN-70W

Cost Effective Solar Lighting Solution



Battery	
capacity	Lithium battery(LiFeP04)42Ah/12.8v
voltage	12V
Battery life	approx.5-6 year
Operating temperature	-20°C~+70°C
Miscellaneous	Battery also charges on cloudy days

Illuminant	
LED max. output	60W
LED max. light flux	6600-7200lm
Colour temperature	5.600k to 6.500k
Autonomous time with full battery max.	36h
LED life	>50,000h
State-of-the-art LED	Insect-neutral light

Photovoltaics	
Module	Monocrystaline silicium cells
Open circuit voltage Voc	22.5V
max. voltage Umpp	18V
Short circuit current Isc	5.57A
max. current Imp	5.0A
max. power Pmax	90W
Tolerance Pmpp	0 to +3%
Dimensions module	1070×397mm
Level of effectiveness of solar cells (moulded)	>17.8%

Inte	nsity Distribution Diagram
GREEN ENERGY TECHNOLOGY	150 165 180 165 150 135 120 120 105 168 60 0 15 0 10 105 0 0 0 0 0 0 0 0 0 0 0 0

6-8 hours by sun
>36hours (operated by motion sensor)
Backup 3days
-20℃- 70℃
5-8m (suggested)
15-25m (suggested)
Aluminum alloy



MG-LN-80W

Cost Effective Solar Lighting Solution

Specification	
Charging Time	6-10 hours by sun
Discharging Time	10-12hours/day
	3 days backup
Working Temperature	-20°C- 70°C
Mounting Height	8-9m (suggested)
Space between light	26-32m (suggested)
Housing material	Aluminum alloy



Photovoltaics	
Monocrystaline silicium cells	
22.5V	
18V	
4.40A	
4.20A	
100W	
±3%	
1178×385mm ■	
17%	



Illuminant	
LED max. output	80W
LED max. light flux	8800-9600lm
Colour temperature	5.600k to 6.500k
Autonomous time with full battery max.	45h
LED life	>50,000h
State-of-the-art LED	Insect-neutral light

165 180 165 150
150 150 150 150 150 150 150 150

Intensity Distribution Diagram

Battery	
capacity	Lithium battery(LiFeP04)56Ah/12.8v
voltage	12V
Battery life	approx.5-6 year
Operating temperature	-20°C~+70°C
Miscellaneous	Battery also charges on cloudy days



MG-LN-120W

Cost Effective Solar Lighting Solution

Specification	
Charging Time	6-8 hours by sun
Discharging Time	10-12hours/day
	3 days backup
Working Temperature	-20°C= 70°C
Mounting Height	5-8m (suggested)
Space between light	15-25m (suggested)
Housing material	Aluminum alloy

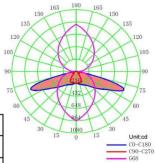


Photovoltaics	
Module	Monocrystaline silicium cells
Open circuit voltage Voc	43.2V
max. voltage Umpp	36V
Short circuit current Isc	3.08A
max. current Imp	2.78A
max. power Pmax	130W
Tolerance Pmpp	±3%
Dimensions module	1588×397mm
Level of effectiveness of solar cells (moulded)	17%



Illuminant	
LED max. output	120W
LED max. light flux	12500-13500lm
Colour temperature	5.600k to 6.500k
Autonomous time with full battery max.	45h
LED life	>50,000h
State-of-the-art LED	Insect-neutral light

Battery	
capacity	Lithium battery(LiFeP04)66Ah/25.6v
voltage	24V
Battery life	approx.5-6 year
Operating temperature	-20°C~+70°C
Miscellaneous	Battery also charges on cloudy days



Intensity Distribution Diagram