GOSOLAR

BY ATIMEX

GOSOLAR POST-TOP LIGHTS

A FULL RANGE OF SOLAR POST-TOP LUMINAIRES

URBAN & PATHWAY LIGHTING

ATIMEX
ENERGY FOR AFRICA

POST-TOP LIGHTS
HOW DOES IT WORK ?

Engineered to perform like conventional Post-Top, GoSolar Post-Top feature high-performing LEDs fueled by Solar energy and Lithium LIFEPO4 Battery featuring compact study design, GoSolar Post-Top are constructed to resist harsh environments with a lifetime of over 8 years without maintenance.

NO ELECTRICITY CONSUMPTION **NO** COST **NO** TRENCHING **NO** CABLING

GSPL-008
2600 LUMENS

OPERATION MODE

Automatic Power ON & Off.
5 differents pre-programmed lighting profiles

EASY INSTALLATION

No wiring or trenching needed for installation

AUTONOMY

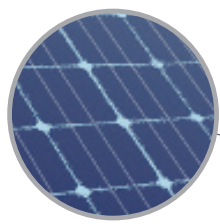20 Hours operation at full Charge.
Smart Management 3 Rainy Back Up

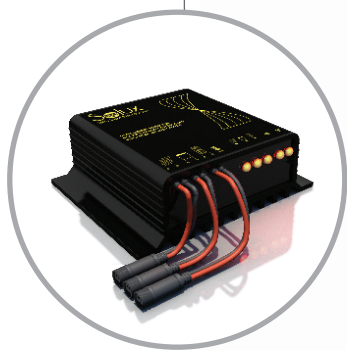## SECURITY & SAFETY

Light back up in case of power shortage

CE   IEC   IK10 ++   IP65   RoHS

COMPONENTS & ADVANTAGES

SOLAR PANEL

DIE CAST ALUMINIUM

HIGH BRIGHTNESS PHILIPS LED

MOTION SENSOR

SAFE
No explosion risk

MPPT / SMART CONTROLLER
97% CHARGING EFFICIENCY

MPPT (Maximum Power Point Tracking) controller automatically track the maximum power point according to the weather variation.
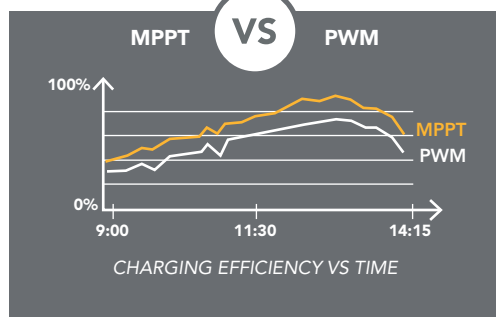
Charging rate : 16-30%

FEATURES

- Maximum power point tracking charging
- Auto identify day/night
- 4 levels dimming design
- Smart mode operation
- **Waterproof IP66**

◊IP⁶⁶

IR REMOTE CONTROL MONITORING

- Check the state of the battery
- Check the charging history
- Settle different running time slots
- Issue diagnostic

MPPT VS PWM

100%

MPPT
PWM

0%

9:00   11:30   14:15

CHARGING EFFICIENCY VS TIME

BATTERY
LITHIUM LIFEPO4

The Eco-friendly and safe LiFePO4 battery improves the cyclic charge and discharge over 2000 times and has a life span of more than 10 years.

BATTERY MANAGEMENT SYSTEM

Electronic Algorythm Protection and battery management system for best use of the battery capacity.

MULTI PROTECTION

| OVER LOAD | OVER CURRENT | OVER TEMPERATURE |
| OVER VOLTAGE | OVER CHARGE | OVER DISCHARGE |

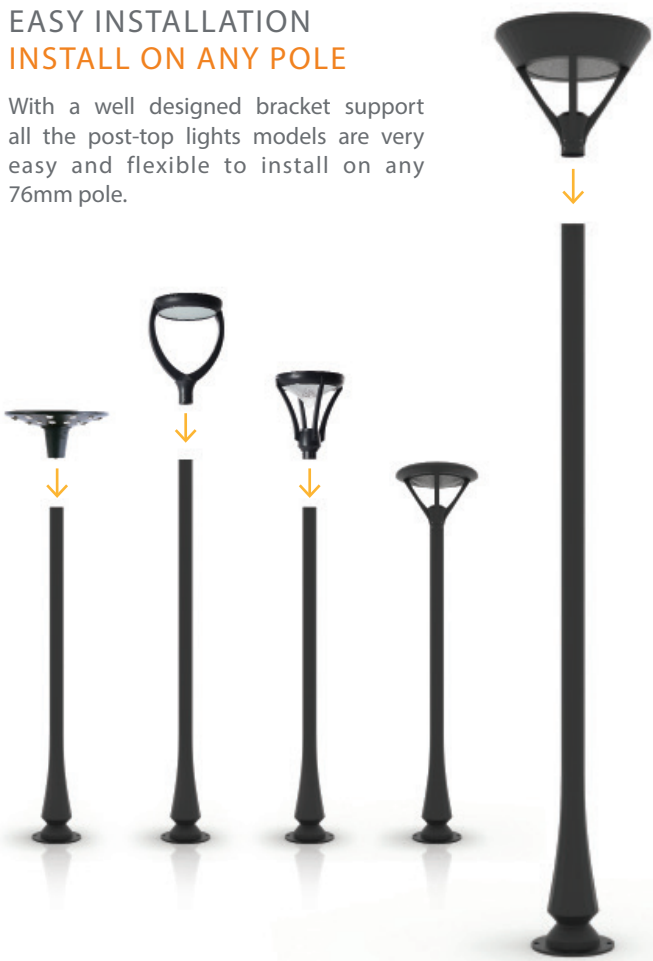| LIFEPO4	VS	LI ION
Over **2000** cycles		Over **500** cycles
No Risk of Explosion		Very High Risk Explosion in High Temperature
-10 to 75 Degree		0 to 45 Degree
Over 10 Years		24 to 32 Months
		50% Cheaper than LiFePO4

EASY INSTALLATION
INSTALL ON ANY POLE

With a well designed bracket support all the post-top lights models are very easy and flexible to install on any 76mm pole.

SOLAR PANEL
33 TO 45 watts 18V

Encapsulated Monocrystalline Solar Panel Grade Solar Cell with Tempered Glass.
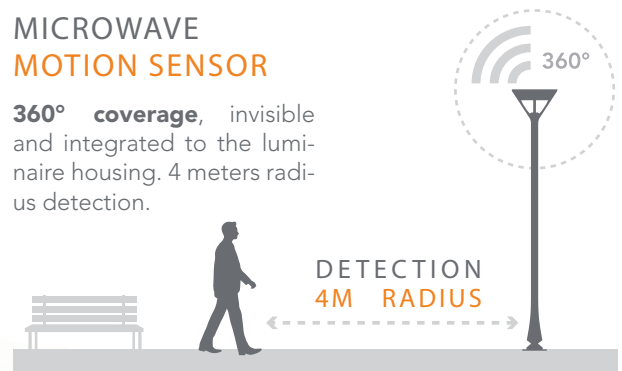
LIGHTING
FROM 1800 TO 2600 LUMENS

PHILLIPS LED Chips of 130 Lumens per Watts. LEDs are mounted to PC boards and directly attached to upper housing for best thermal management.

MICROWAVE
MOTION SENSOR

360° coverage, invisible and integrated to the luminaire housing. 4 meters radius detection.

360°

DETECTION
4M RADIUS

OPERATION MODE

THE PHOTOSENSOR WILL AUTOMATICALLY SWITCHES ON & OFF THE LIGHT FROM DUSK TO DAWN. GoSolar Technology gives you the option to choose from 4 differents pre-programmed lighting profiles pictured in the table.

Please inform us the selected mode when placing your order.

	SUNSET	MIDNIGHT	SUNRISE
Pr 1	5 hours	5 hours	4 hours
Pr 2	4 hours	10 hours	
Pr 3	3 hours	7 hours	4 hours
Pr 4	14 hours		

☐ 100% ON   ▉ 30% DIM   ▉ Sensor* 30% DIm + 100% Power for 1 mn when triggered

LUMINAIRE HOUSING

High pressure die-cast low-copper aluminum. **Protection class (IP66)**. GoSolar uses a high quality Polyester Powder **Coating from AKZO NOBEL**. This powder coating products provide an excellent salt and humidity resistance as well as ultra violet resistance for color retention.

IP 66

THINK **BRIGHT**, THINK **GOSOLAR**
URBAN & PATHWAY LIGHTING

GSPL-005

SOLAR POST-TOP LIGHTS

2600 LUMENS

Wattage
20 WATTS WITH DIRECTION LENS

Battery
LITHIUM LIFEPO4 25 AH 12.8 VOLTS

Pv Panel
45 WATTS MONOCRYSTALINE PANEL

Charging Time
6 HOURS PER DAY

Material
DIE CAST ALUMINIUM

CCT
3000 K - 6500 K

Autonomy
23 HOURS AT FULL CHARGE

Height
350 CM

Finish
BLACK / GREY

Option
SMART MONITORING

60,9

350

GSPL-006

SOLAR POST-TOP LIGHTS

1800 LUMENS

Wattage
14 WATTS WITH DIRECTION LENS

Battery
LIFEPO4 20 AH 12.8 VOLTS

Pv Panel
33 WATTS MONOCRYSTALINE PANEL

Charging Time
6 HOURS PER DAY

Material
DIE CAST ALUMINIUM

CCT
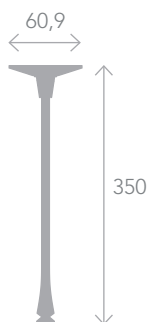**3000 K - 6500 K**

Autonomy
23 HOURS AT FULL CHARGE

Height
260 CM

Finish
BLACK / GREY

Option
SMART MONITORING/ MICROWAVE SENSOR

44,5

260

GSPL-007

SOLAR POST-TOP LIGHTS

1800 LUMENS

Wattage
14 WATTS WITH DIRECTION LENS

Battery
LITHIUM LIFEPO4 20 AH 12.8 VOLTS

Pv Panel
33 WATTS MONOCRYSTALINE PANEL

Charging Time
6 HOURS PER DAY

Material
DIE CAST ALUMINIUM

CCT
3000 K - 6500 K

Autonomy
23 HOURS AT FULL CHARGE

Height
250 CM

Finish
BLACK / GREY

Option
SMART MONITORING/ MICROWAVE SENSOR

45

250

GSPL-008

SOLAR POST-TOP LIGHTS

2600 LUMENS

Wattage
20 WATTS WITH DIRECTION LENS

Battery
LITHIUM LIFEPO4 25 AH 12.8 VOLTS

Pv Panel
45 WATTS MONOCRYSTALINE PANEL

Charging Time
6 HOURS PER DAY

Material
DIE CAST ALUMINIUM

CCT
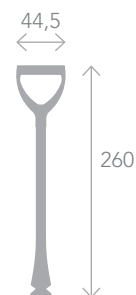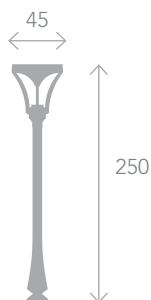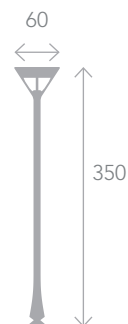**3000 K - 6500 K**

Autonomy
23 HOURS AT FULL CHARGE

Height
350 CM

Finish
BLACK / GREY

Option
SMART MONITORING/ MICROWAVE SENSOR

60

350

GSPL-009

SOLAR POST-TOP LIGHTS

1800 LUMENS

GSPL-010

SOLAR POST-TOP LIGHTS

2600 LUMENS

Wattage	Wattage
14 WATTS WITH DIRECTION LENS	**20 WATTS WITH DIRECTION LENS**
Battery	Battery
LITHIUM LIFEPO4 20 AH 12.8 VOLTS	**LITHIUM LIFEPO4 25 AH 12.8 VOLTS**
Pv Panel	Pv Panel
33 WATTS MONOCRYSTALINE PANEL	**45 WATTS MONOCRYSTALINE PANEL**
Charging Time	Charging Time
6 HOURS PER DAY	**6 HOURS PER DAY**
Material	Material
DIE CAST ALUMINIUM	**DIE CAST ALUMINIUM**
CCT	CCT
3000 K - 6500 K	**3000 K - 6500 K**
Autonomy	Autonomy
23 HOURS AT FULL CHARGE	**23 HOURS AT FULL CHARGE**
Height	Height
260 CM	**350 CM**
Finish	Finish
BLACK / GREY	**BLACK / GREY**
Option	Option
SMART MONITORING/ MICROWAVE SENSOR	**SMART MONITORING/ MICROWAVE SENSOR**

45

260

60

350

ONE SERIES

INTEGRATED SOLAR STREET LIGHT

ONE SERIES
HOW DOES IT WORK ?

THE COMPACT SOLAR LIGHTING SOLUTION

GOSOLAR presents the ultimate fully integrated solar street light system. With an extremely simple way of installation compare to traditional lead acid battery system, ONE series presents all the Solar Lighting Advantages. ONE Pro is the latest original version of ONE Series with a unique new design.

ALL YOU NEED IN ONE SOLAR LIGHT

+ EASY MAINTENANCE
with a direct access to battery and controller.

ORIGINAL NEW DESIGN

+ HEAT-SINK HOLE
Perfect heat dissipation of the battery and components with natural air flow

ANTI BLACK OUT

Optimal component calibration and intelligent management system

UNEQUALED LIFETIME

Selection of the latest and highest component technology

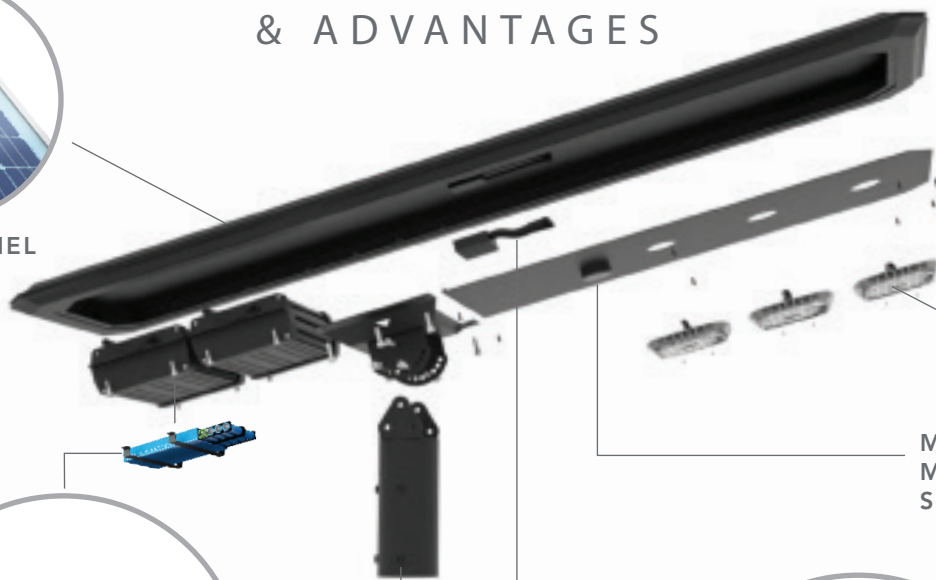**EXTREME TEMPERATURE**

Resistant
-20 ℃ to +65 ℃

WORLDWIDE WARRANTY

We offer a 5 years warranty on all the components

YEARS
5

CE IEC IK10++ IP65 RoHS

COMPONENTS
& ADVANTAGES

SOLAR PANEL

LED

MICROWAVE MOTION SENSOR

ANTI-THEFT SCREWS

✓ **SAFE**
No explosion risk

BATTERY
LITHIUM LIFEPO4

The Eco-friendly and safe LiFePO4 battery improves the cyclic charge and discharge over 2000 times and has a life span of more than 10 years.

BATTERY MANAGEMENT SYSTEM

Electronic Algorythm Protection and battery management system for best use of the battery capacity.

MULTI PROTECTION

☀ OVER LOAD	∿ OVER CURRENT	⊗ OVER TEMPERATURE
⌣ OVER VOLTAGE	↓ OVER CHARGE	↑ OVER DISCHARGE

LIFEPO4	VS	LI ION
Over **2000** cycles	⏱	Over **500** cycles
No Risk of Explosion	✓	Very High Risk Explosion in High Temperature
-10 to 75 Degree	🌡	0 to 45 Degree
Over 10 Years	🔋	24 to 32 Months
	$	50% Cheaper than LiFePO4

MPPT / SMART CONTROLLER
97% CHARGING EFFICIENCY

MPPT (Maximum Power Point Tracking) controller automatically track the maximum power point according to the weather variation.

Charging rate : 16-30%

FEATURES

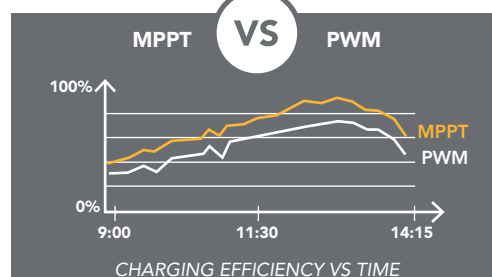- Maximum power point tracking charging
- Auto identify day/night
- 4 levels dimming design
- Smart mode operation
- **Waterproof IP68**

💧 IP68

IR REMOTE CONTROL MONITORING

- Check the state of the battery
- Check the charging history
- Settle different running time slots
- Issue diagnostic

MPPT	VS	PWM

100%

MPPT
PWM

0%

9:00   11:30   14:15

CHARGING EFFICIENCY VS TIME
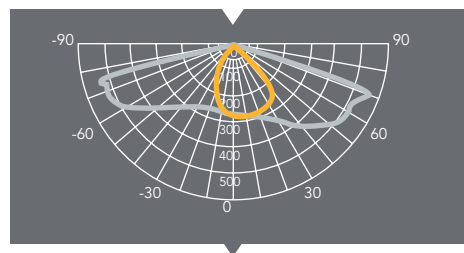
WATERPROOF
CASING

LED LIGHTING
PHILIPS LUXEON HIGH EFFICIENCY LIGHTING

Combined with heat dissipation design, pure aluminium lamp base with seal lens for an optimal lighting and life span. Batwing lens for a perfect illumination and uniformity

150 LUMENS PER WATTS

PHILIPS

BATWING LENS LIGHT DISTRIBUTION CURVE

-90   90

-60   60

-30   30

0

Light distribution with greater than 93% uniformity

ANTI THEFT
SCREW

EASY INSTALLATION
JUST INSERT ON THE TOP OF A POLE

Different diameter available. With a well designed bracket support the ONE is very easy and flexible to install on any pole.

MOTION SENSOR
PIR OR MICROWAVE SENSOR

The ONE will automatically switches ON at dusk and switches OFF at dawn. 50% permanent lighting, when presence is detected power turn to 100%.

DETECTION OVER
8M RADIUS

BRIGHT MODE
100% Brightness

DIM MODE
50% Brightness

8 meters
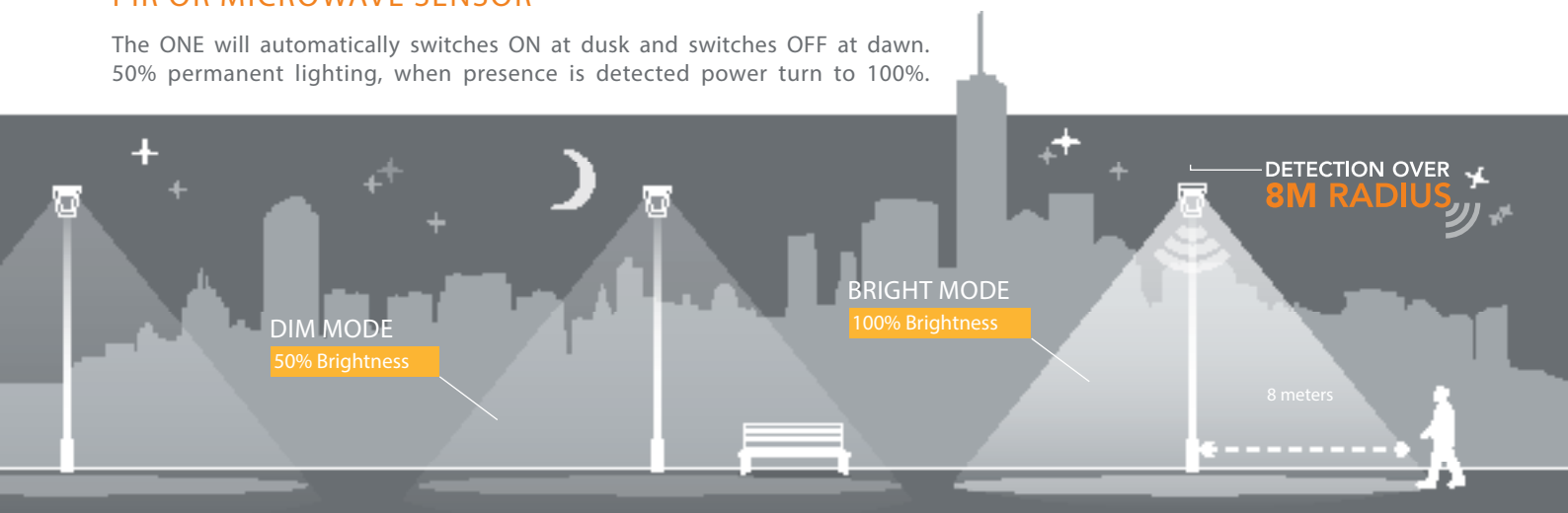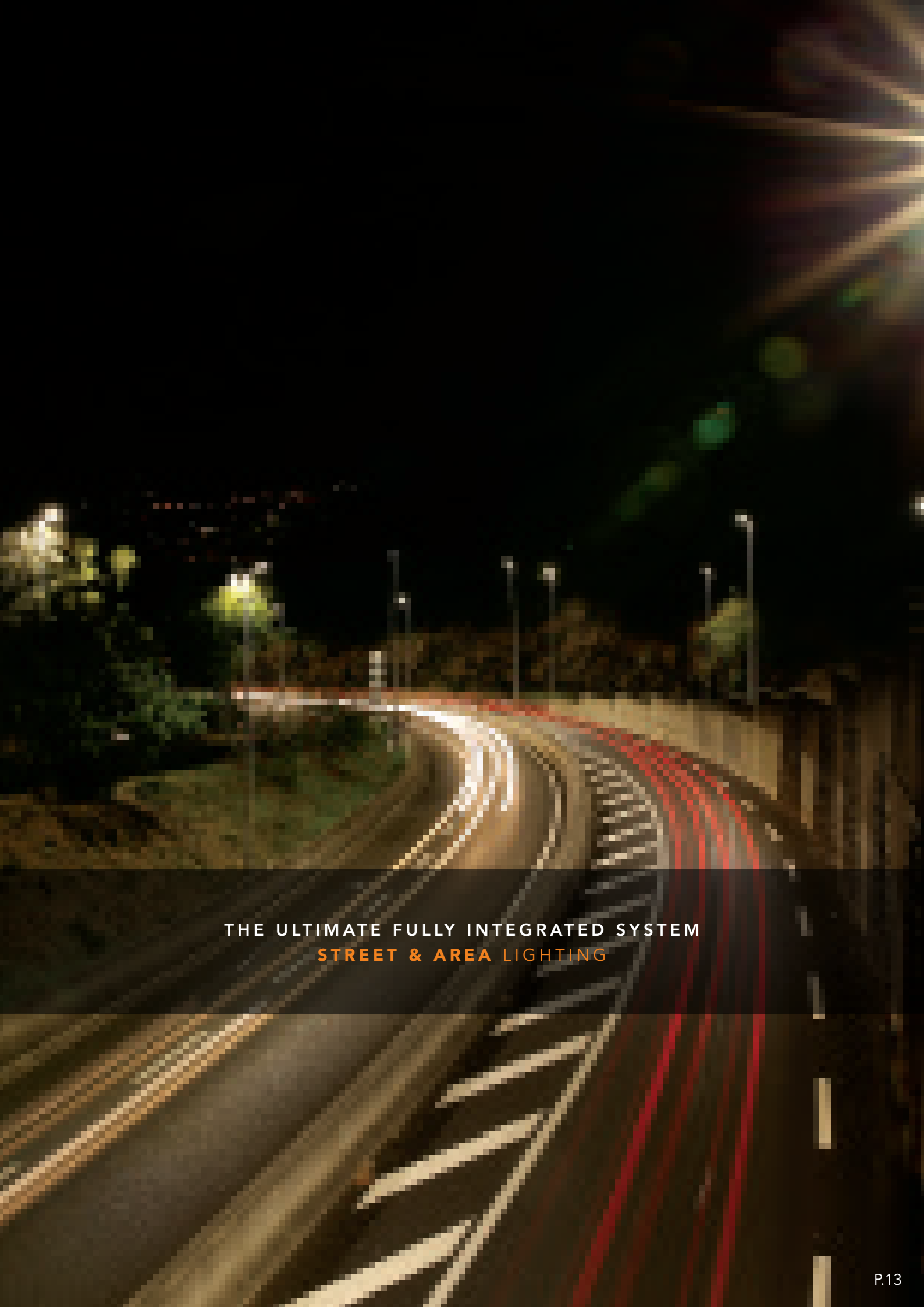
THE ULTIMATE FULLY INTEGRATED SYSTEM
STREET & AREA LIGHTING

MADE FROM THE
HIGHEST COMPONENTS

We at GoSolar selected the best components **for the highest level of performance and durability**

	ONE 20	ONE 30	ONE 40	ONE 50
LED POWER	20 WATTS	30 WATTS	40 WATTS	50 WATTS
LUMINOUS FLUX	**2800 LUMENS**	**4200 LUMENS**	**5600 LUMENS**	**7000 LUMENS**
LIGHTING ◀				
Efficiency	150 LUMENS / WATTS			
Chips	PHILIPS LUXEON			
LED Lifetime	OVER 50000 HOURS LM80			
Lighting Angle	120 DEGREE			
Mounting Height	3-4 METERS	3-5 METERS	3-6 METERS	3 -6 METERS
STORAGE ◀				
Technology	LITHIUM IRON PHOSPHATE LIFEPO4 18650 INCLUDING BATTERY MANAGEMENT SYSTEM BMS			
Capacity	18 AH 12.8 VOLTS	21 AH 12.8 VOLTS	24 AH 12.8 VOLTS	31 AH 12.8 VOLTS
Autonomy	OVER 24 HOURS AT FULL CHARGE - 4 RAINY DAYS BACK UP			
Charging time	6-7 HOURS			
Lifespan	OVER 2500 CYCLES - 8 TO 10 YEARS LIFETIME			
Certificate	EN 61427 MSDS			
ENERGY ◀				
Solar panel	**60** WATTS /18V	**60** WATTS /18V	**72** WATTS /18V	**72** WATTS /18V
Lifespan	MONOCRYSTALINE PANEL GRADE A 25 YEARS			
Certificates	IEC 61215 ; IEC 61730 I AND II ; IEC 60904			
ELECTRONIC ◀				
Controller	MPPT SMART CONTROLLER			
Sensor	PIR MOTION SENSOR			
Cabling	WATERPROOF CONNECTOR, PLUG AND PLAY			
Certificates	EN 55015 ; EN 61000			
DIMENSIONS ◀				
Unit Size H*h*l	910*400*165	910*400*165	1110*400*165	1110*400*165
Carton size	965*455*240	965*455*240	1165*455*240	1165*455*240
Net weight	12,5 KG	13,5 KG	15,8 KG	16,8 KG
Gross weight	14,3 KG	15,3 KG	18,5 KG	19,5 KG
QTY per container 20» / 40»	275PCS/550PCS	275PCS/550PCS	252PCS/504PCS	252PCS/504PCS

ONE 60
60 WATTS
8400 LUMENS

ONE 80
80 WATTS
11000 LUMENS

ONE 100
100 WATTS
14000 LUMENS

ONE 120
120 WATTS
16800 LUMENS

ONE 60	ONE 80	ONE 100	ONE 120	
150 LUMENS / WATTS				
PHILIPS LUXEON				
OVER 50000 HOURS LM80				
120 DEGREE				
4-7 METERS	5-7 METERS	5-8 METERS	5-9 METERS	
LITHIUM IRON PHOSPHATE LIFEPO4 18650 INCLUDING BATTERY MANAGEMENT SYSTEM BMS				
42 AH 12.8 VOLTS	52 AH 12.8 VOLTS	62 AH 12.8 VOLTS	72 AH 12.8 VOLTS	
OVER 24 HOURS AT FULL CHARGE - 4 RAINY DAYS BACK UP				
6-7 HOURS				
OVER 2500 CYCLES - 8 TO 10 YEARS LIFETIME				
EN 61427 MSDS				
105 WATTS /18V	105 WATTS /18V	140 WATTS /18V	140 WATTS /18V	
MONOCRYSTALINE PANEL GRADE A 25 YEARS				
IEC 61215 ; IEC 61730 I AND II ; IEC 60904				
MPPT SMART CONTROLLER				
MICROWAVE MOTION SENSOR				
WATERPROOF CONNECTOR, PLUG AND PLAY				
EN 55015 ; EN 61000				
1570*400*165	1570*400*165	1408*565*150	1408*565*150	
1625*455*240	1625*455*240	1460*610*260	1460*610*260	
19.2 KG	20.15 KG	22.15KG	23.15KG	
23.5 KG	24.6 KG	27.35KG	28.35KG	
175PCS/350PCS	175PCS/350PCS	125PCS/250PCS	125PCS/250PCS	

SOLAR LIGHT XPRO

SOLAR STREET LIGHT

XPRO SERIES
HOW DOES IT WORK ?

SOLAR STREET AND AREA LIGHT SOLUTION
GoSolar presents his Solar Street light with an extremely simple way of installation compare to traditional lead acid battery system. XPRO series enjoy a smart and unique design together with the best components available on the market. Using LIFEPO4 Battery, MPPT contoller and also made in Aluminum makes it the most powerful and reliable solution.

+ ALUMINIUM CASING.
Perfect for heat dissipation, direct airflow on the battery

ANTI BLACK OUT
Optimal component calibration and intelligent management system

UNEQUALED LIFETIME
Selection of the latest and highest component technology

EXTREME TEMPERATURE
Resistant
-20 °C to +65 °C

YEARS 5

WORLDWIDE WARRANTY
We offer a 5 years warranty on all the components

CE   IEC   IK10 ++   IP65   RoHS

COMPONENTS & ADVANTAGES

SOLAR PANEL

+ EASY MAINTENANCE
with a direct access to battery and controller.

MICROWAVE MOTION SENSOR

LED FIXTURE
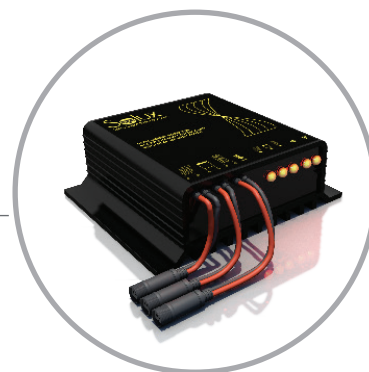
✓ SAFE
No explosion risk

BATTERY
LITHIUM LIFEPO4

The Eco-friendly and safe LiFePO4 battery improves the cyclic charge and discharge over 2000 times and has a life span of more than 10 years.

BATTERY MANAGEMENT SYSTEM

Electronic Algorythm Protection and battery management system for best use of the battery capacity.

MULTI PROTECTION

☀ OVER LOAD	∿ OVER CURRENT	⊗ OVER TEMPERATURE
⌣ OVER VOLTAGE	↓ OVER CHARGE	↑ OVER DISCHARGE

MPPT / SMART CONTROLLER
97% CHARGING EFFICIENCY

MPPT (Maximum Power Point Tracking) controller automatically track the maximum power point according to the weather variation.

Charging rate : 16-30%

FEATURES

- Maximum power point tracking charging
- Auto identify day/night
- 4 levels dimming design
- Smart mode operation
- **Waterproof IP66**

IP66

IR REMOTE CONTROL MONITORING

- Check the state of the battery
- Check the charging history
- Settle different running time slots
- Issue diagnostic

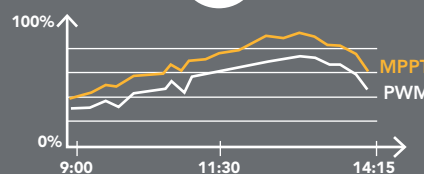| LIFEPO4	VS	LI ION
Over **2000** cycles	🕐	Over **500** cycles
No Risk of Explosion	✓	Very High Risk Explosion in High Temperature
-10 to 75 Degree	🌡	0 to 45 Degree
Over 10 Years	🗎	24 to 32 Months
	$	50% Cheaper than LiFePO4

MPPT VS PWM

100%

MPPT
PWM

0%

9:00   11:30   14:15

CHARGING EFFICIENCY VS TIME

EASY INSTALLATION
INSERT ON THE POLE, ORIENTATE & CHOOSE YOUR TILT

With a well designed bracket support all the XPRO models are very easy and flexible to install on the pole. This model also allow you to choose the orientation and the tilt of the PV panel.

SOLAR PANEL
125 TO 300 WATTS

Solar panels high quality monocrystalline solar cells grade A. Solar panel efficiency up to 19.4%. 5 busbars cells for a better collected current capability. Full IP67 including the junction box

OUR PV PERFORMANCE GUARANTEE

Guarantee module performance

- Solux Grade
- Commercial Guarantee

97% · 90% · 85% · 80% · 0%

1 · 5 · 10 · 15 · 20 · 25 · 30 · Years

LED LIGHTING
FROM 4500 TO 12000 LUMENS

PHILIPS

Combined with heat dissipation design, pure aluminium lamp base with seal lense for an optimal lighting and life span. Batwing lens for a perfect illumination and uniformity.
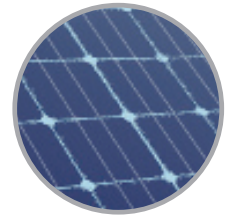
LIGHT DISTRIBUTION CURVE
UNIT: CD

LUMINAIRE HOUSING

High pressure die-cast low-copper aluminum. Protection class IP66. Solux uses a high quality Polyester Powder coating from AKZO NOBEL.
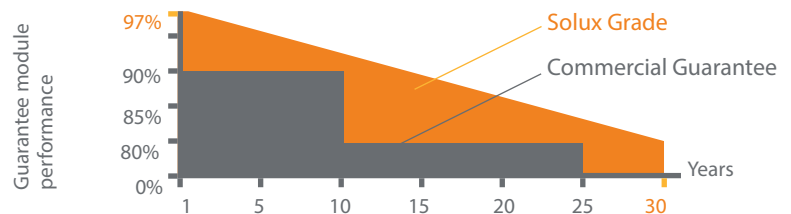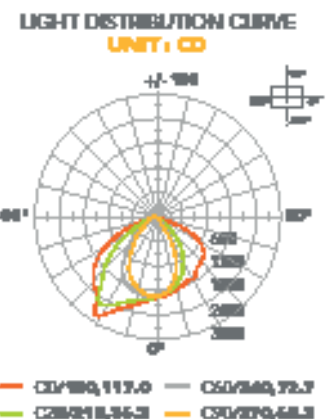
MICROWAVE MOTION SENSOR

360° coverage, invisible and integrated to the luminaire housing. 8 meters wave radius.

360°

DETECTION
8M RADIUS

OPERATION MODE

THE PHOTOSENSOR WILL AUTOMATICALLY SWITCHES ON & OFF THE LIGHT FROM DUSK TO DAWN. SOLUX Technology gives you the option to choose from 4 differents pre-programmed lighting profiles pictured in the table. Please inform us the selected mode when placing your order.

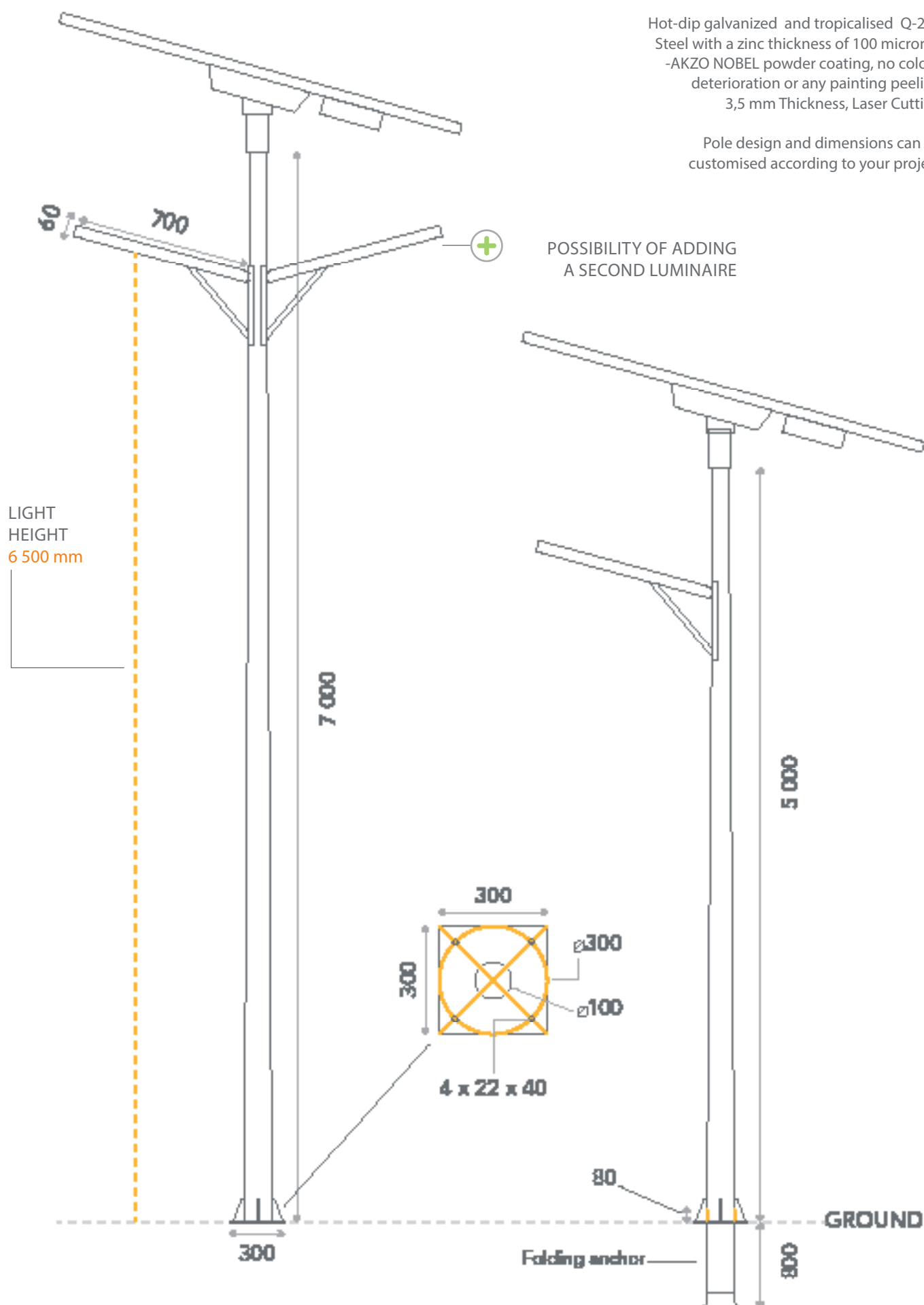|	SUNSET	MIDNIGHT	SUNRISE
Pr 1	5 hours	5 hours	4 hours
Pr 2	4 hours	10 hours	
Pr 3	3 hours	7 hours	4 hours
Pr 4	14 hours		

☐ 100% ON   ▨ 30% DIM   ▨ Sensor* 30% Dimming + 100% Power for 1 min when triggered

SIZES & DIMENSIONS
TWO POLES 7 & 5 METERS

Hot-dip galvanized and tropicalised Q-235
Steel with a zinc thickness of 100 microns ,
-AKZO NOBEL powder coating, no colour
deterioration or any painting peeling
3,5 mm Thickness, Laser Cutting

Pole design and dimensions can be
customised according to your project

POSSIBILITY OF ADDING
A SECOND LUMINAIRE

LIGHT
HEIGHT
6 500 mm

60

700

7 000

5 000

300

300

⌀300

⌀100

4 x 22 x 40

80

GROUND

300

Folding anchor

800

MADE FROM THE
HIGHEST COMPONENTS

We at GoSolar selected the best
components **for the highest level
of performance and durability**

X**PRO 30**

X**PRO 40**

X**PRO 60**

	30 WATTS	40 WATTS	60 WATTS
LED POWER			
LUMINOUS FLUX	**4500 LUMENS**	**6000 LUMENS**	**9000 LUMENS**

LIGHTING ◄			
Efficiency	150 LUMENS / WATTS		
Chips	**PHILIPS** LUXEON		
LED Lifetime	OVER 50000 HOURS LM80		
Lighting Angle	120 DEGREE		
Pole Height	5 METERS	5-6 METERS *CUSTOMIZABLE*	5-7 METERS
STORAGE ◄			
Technology	LITHIUM IRON PHOSPHATE LIFEPO4 18650 INCLUDING BATTERY MANAGEMENT SYSTEM BMS		
Capacity	36 AH 12.8 VOLTS	49 AH 12.8 VOLTS	72 AH 12.8 VOLTS
Autonomy	OVER 24 HOURS AT FULL CHARGE - 4 RAINY DAYS BACK UP		
Charging time	6-7 HOURS		
Lifespan	OVER 2500 CYCLES - 8 TO 10 YEARS LIFETIME		
Certificate	EN 61427 MSDS		
ENERGY ◄			
Solar panel	**125** WATTS /18V	**135** WATTS /18V	**195** WATTS /18V
Lifespan	MONOCRYSTALINE PANEL GRADE A 25 YEARS		
Certificates	IEC 61215 ; IEC 61730 I AND II ; IEC 60904		
ELECTRONIC ◄			
Controller	MPPT SMART CONTROLLER		
Sensor	MICROWAVE 360 DEGREE MOTION SENSOR		
Cabling	WATERPROOF CONNECTOR, PLUG AND PLAY		
Certificates	EN 55015 ; EN 61000		
DIMENSIONS ◄			
Unit Size H*h*l			
Carton size			
Net weight			
Gross weight			
QTY per container 20» / 40»			

X**PRO 80**

80 WATTS

12 000 LUMENS

X**PRO 100**

100 WATTS

15 000 LUMENS

X**PRO-DUAL50**

2*50 WATTS

2*7500 LUMENS

XPRO 80	XPRO 100	XPRO-DUAL50
150 LUMENS / WATTS		
PHILIPS LUXEON		
OVER 50000 HOURS LM80		
120 DEGREE		
6-8 METERS	6-8 METERS CUSTOMIZABLE	6-8 METERS
LITHIUM IRON PHOSPHATE LIFEPO4 18650 INCLUDING BATTERY MANAGEMENT SYSTEM BMS		
90 AH 12.8 VOLTS	58.5 AH 25.6 VOLTS	58.5 AH 25.6 VOLTS
OVER 24 HOURS AT FULL CHARGE - 4 RAINY DAYS BACK UP		
6-7 HOURS		
OVER 2500 CYCLES - 8 TO 10 YEARS LIFETIME		
EN 61427 MSDS		
210WATTS /18V	285WATTS /36V	285WATTS /36V
MONOCRYSTALINE PANEL GRADE A 25 YEARS		
IEC 61215 ; IEC 61730 I AND II ; IEC 60904		
MPPT SMART CONTROLLER		
MICROWAVE 360 DEGREE MOTION SENSOR		
WATERPROOF CONNECTOR, PLUG AND PLAY		
EN 55015 ; EN 61000		

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