

**WORHAN®**

*Products catalogue - 2020*

## PRICE

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## FEATURES

Gross Weight:	<b>0.83 kg</b>
Height (with packaging):	<b>15.00 cm</b>
Length (with packaging):	<b>26.50 cm</b>
Width (with packaging):	<b>8.80 cm</b>

## DESCRIPTION

Visibly emitted light is 400 lumens (40W)., Light spectrum : Cool White (6000K±500K)., Amount of LED's - 34pcs., Power of the solar panel is 1W., Waterproof IP65., Application ideas: Garden / Park / Path / Wall / Building / Fence / Courtyard / Stairs.,

GERMAN BRAND. 2 YEARS WARRANTY. EXCEPTIONAL CUSTOMER SERVICE. Products have been tested and manufactured to comply with the following standards: CE, RoHS, FCC. (These certificates are available upon a request).

Charging time: 8 hours., Lighting time: 6-7 nights ., LiFePO4 Lithium battery: 18.5 Wh (5AH, 3.7 V)., Lamp dimensions: 214mm x 134mm., Operating temperature from -20°C up to +60°C.

3 lighting modes: a) 10% of brightness + PIR., B) 25% of brightness for 3 hours and after 10% of brightness + PIR., C) 100% of brightness throughout the night., PIR is - Passive Infrared Sensor, to detect movement., The lamp starts to operate automatically at a ambient light level below 10 lux and has stopped working at a light level above 50 lux.,

Intelligent lighting technology ALS2.0 + VFT + TCS for All Night Lighting, even in Cloudy or Rainy Day., Material: Polycarbonate plastic., Exposure to sunlight has a direct affect on battery charging time.

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## FEATURES

Gross Weight:	<b>0.55 kg</b>
Height (with packaging):	<b>13.00 cm</b>
Length (with packaging):	<b>21.00 cm</b>
Width (with packaging):	<b>7.00 cm</b>

## DESCRIPTION

The visibly emitted light is 30 lumens, Light spectrum: warm white (3000 K  $\pm$  300 K). Number of LEDs - 5 pieces. The power of the solar panel is 1 W., IP65 sealing., Ideas for application: garden / park / walking / wall / building / fence / path / stairs.,

GERMAN BRAND. 2 YEAR WARRANTY. EXCEPTIONAL CUSTOMER SERVICE. The products have been tested and manufactured according to the following standards: CE, RoHS, FCC. (These certificates are available on request.),

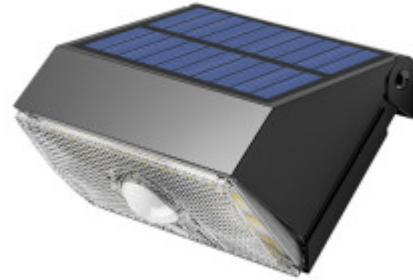
Charging time: 11 hours., Lighting time: 3 nights +., Lithium-ion battery: 9.62 Wh (2.6 Ah, 3.7 V), Lamp dimensions: 210 mm x 130 mm. Operating temperature -20 ° C to + 60 ° C,

1 lighting mode: 100% brightness during the night. The lamp starts working automatically at a light intensity below 10 lux and stops working at a light intensity above 50 lux.

Material: aluminum + ABS. Sun exposure has a direct effect on the charging time of the battery.

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## FEATURES

Gross Weight:	<b>0.21 kg</b>
Height (with packaging):	<b>8.70 cm</b>
Length (with packaging):	<b>9.30 cm</b>
Width (with packaging):	<b>6.00 cm</b>

## DESCRIPTION

Visibly emitted light is 1000 lumens (100W)., Light spectrum: 4000K., LED quantity - 20pcs., The power of the solar panel is 0.5W., IP65 waterproofing., Application ideas: Garden / Park / Path / Wall / Building / Fence / Yard / Stairs.,

GERMAN BRAND. 2 YEAR WARRANTY. EXCEPTIONAL CUSTOMER SERVICE. The products have been tested and manufactured according to the following standards: CE, RoHS, FCC. (These certificates are available on request).,

Charging time: 20 hours., Lighting time: 5 nights., LiFePO4 lithium battery: 7.4 Wh (2AH, 3.7 V)., Lamp dimensions: 90mm x 55mm x 80mm., Operating temperature of -20 ° C to + 60 ° C.,

3 lighting modes: a) PIR with 1000lm of luminosity during 10s., B) 20lm of luminosity during all the night + PIR of 1000lm., C) 20lm of luminosity during all the night. ; PIR is - Passive Infrared Sensor, to detect movement., The lamp begins to operate automatically at a light level below 10 lux and has stopped working at a light level above 50 lux. ,

ALS2.0 + VFT + TCS intelligent lighting technology for night lighting (" All Night Lighting "), even in cloudy or rainy weather., Material: PA - Polyamide., Sun exposure has an effect directly on the battery charging time.

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## FEATURES

Gross Weight:	<b>1.63 kg</b>
Height (with packaging):	<b>20.30 cm</b>
Length (with packaging):	<b>19.00 cm</b>
Width (with packaging):	<b>10.80 cm</b>

## DESCRIPTION

Light spectrum : (3000K  $\pm$  300K)., with ONLY colours RED GREEN BLUE possible.

Amount of LED's - 40pcs., Power of the solar panel is 4.35W., Waterproof IP65., Application ideas: Lighting and decoration for garden, courtyard, trees, park, house, tourist area etc.,

GERMAN BRAND. 2 YEARS WARRANTY. EXCEPTIONAL CUSTOMER SERVICE. Products have been tested and manufactured to comply with the following standards: CE, RoHS, FCC. (These certificates are available upon a request).

Charging time: 8 hours., Lighting time: 8 nights+ ., LiFePO4 Lithium battery: 28.86 Wh (7.8H, 3.7 V)., Lamp dimensions: 104mm x 190mm., Operating temperature from -20°C up to +60°C.

4 lighting modes possible: a) RED color b) GREEN color c) BLUE color d) Constant change of colors from RED to GREEN to BLUE., The LED indicator displays 3 levels of remaining power capacity.,

Intelligent lighting technology ALS2.0 + VFT + TCS for All Night Lighting, even in Cloudy or Rainy Day., Material: Aluminium alloy & tempered glass., Exposure to sunlight has a direct affect on battery charging time.

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## FEATURES

Gross Weight:	<b>1.38 kg</b>
Height (with packaging):	<b>17.30 cm</b>
Length (with packaging):	<b>19.00 cm</b>
Width (with packaging):	<b>10.80 cm</b>

## DESCRIPTION

Visibly emitted light is 1000 lumens (100W), Light spectrum : Cool White (6000K±500K), Amount of LED's - 40pcs., Power of the solar panel is 2.65W., Waterproof IP65., Application ideas: Garage/warehouse/Roadway /pathway /Parking Lot /Private road /Sidewalk /Public square.

GERMAN BRAND. 2 YEARS WARRANTY. EXCEPTIONAL CUSTOMER SERVICE. Products have been tested and manufactured to comply with the following standards: CE, RoHS, FCC. (These certificates are available upon a request).

Charging time: 8 hours., Lighting time: 8 nights+ ., LiFePO4 Lithium battery: 19.24 Wh (5.2AH, 3.7V)., Lamp dimensions: 104mm x 190mm., Operating temperature from -20°C up to +60°C.

6 lighting modes: 3 modes for indoors and 3 modes for outdoors. Remote controller can: turn the light ON/OFF, select a required working mode, adjust brightness and to set a timer of 3h or 5h., LED Indicator shows 3 levels of power capacity and indoor/outdoor mode indication.

Intelligent lighting technology ALS2.0 + VFT + TCS for All Night Lighting, even in Cloudy or Rainy Day., Material: Aluminium alloy & tempered glass., Exposure to sunlight has a direct affect on battery charging time.

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## FEATURES

Gross Weight:	<b>1.55 kg</b>
Height (with packaging):	<b>20.30 cm</b>
Length (with packaging):	<b>19.00 cm</b>
Width (with packaging):	<b>10.80 cm</b>

## DESCRIPTION

Visibly emitted light is 1500 lumens (150W), Light spectrum : Cool White (6000K±500K), Amount of LED's - 40pcs., Power of the solar panel is 4.25W., Waterproof IP65., Application ideas: Garage/warehouse/Roadway /pathway /Parking Lot /Private road /Sidewalk /Public square.

GERMAN BRAND. 2 YEARS WARRANTY. EXCEPTIONAL CUSTOMER SERVICE. Products have been tested and manufactured to comply with the following standards: CE, RoHS, FCC. (These certificates are available upon a request).

Charging time: 8 hours., Lighting time: 8 nights+ ., LiFePO4 Lithium battery: 28.86 Wh (7.8AH, 3.7V), Lamp dimensions: 104mm x 190mm., Operating temperature from -20°C up to +60°C.

6 lighting modes: 3 modes for indoors and 3 modes for outdoors. Remote controller can: turn the light ON/OFF, select a required working mode, adjust brightness and to set a timer of 3h or 5h., LED Indicator shows 3 levels of power capacity and indoor/outdoor mode indication.

Intelligent lighting technology ALS2.0 + VFT + TCS for All Night Lighting, even in Cloudy or Rainy Day., Material: Aluminium alloy & tempered glass., Exposure to sunlight has a direct affect on battery charging time.

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## FEATURES

Gross Weight:	<b>1.73 kg</b>
Height (with packaging):	<b>25.20 cm</b>
Length (with packaging):	<b>19.00 cm</b>
Width (with packaging):	<b>10.80 cm</b>

## DESCRIPTION

Visibly emitted light is 2000 lumens (200W)., Light spectrum : Cool White (6000K±500K)., Amount of LED's - 20pcs., Power of the solar panel is 5.2W., Waterproof IP65., Application ideas: Garage/warehouse/Roadway /pathway /Parking Lot /Private road /Sidewalk /Public square.

GERMAN BRAND. 2 YEARS WARRANTY. EXCEPTIONAL CUSTOMER SERVICE. Products have been tested and manufactured to comply with the following standards: CE, RoHS, FCC. (These certificates are available upon a request).

Charging time: 8 hours., Lighting time: 8 nights+ ., LiFePO4 Lithium battery: 38.48 Wh (10.4AH, 3.7 V)., Lamp dimensions: 104mm x 190mm., Operating temperature from -20°C up to +60°C.

6 lighting modes: 3 modes for indoors and 3 modes for outdoors. Remote controller can: turn the light ON/OFF, select a required working mode, adjust brightness and to set a timer of 3h or 5h., LED Indicator shows 3 levels of power capacity and indoor/outdoor mode indication.

Intelligent lighting technology ALS2.0 + VFT + TCS for All Night Lighting, even in Cloudy or Rainy Day., Material: Aluminium alloy & tempered glass., Exposure to sunlight has a direct affect on battery charging time.



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## FEATURES

Gross Weight:	<b>2.88 kg</b>
Height (with packaging):	<b>21.80 cm</b>
Length (with packaging):	<b>45.30 cm</b>
Width (with packaging):	<b>13.80 cm</b>

## DESCRIPTION

Visibly emitted light is 4000 lumens (400W), Light spectrum : Cool White (6000K±500K), Amount of LED's - 40pcs., Power of the solar panel is 9.45W., Waterproof IP65., Application ideas: Garage/warehouse/Roadway /pathway /Parking Lot /Private road /Sidewalk /Public square.

GERMAN BRAND. 2 YEARS WARRANTY. EXCEPTIONAL CUSTOMER SERVICE. Products have been tested and manufactured to comply with the following standards: CE, RoHS, FCC. (These certificates are available upon a request).

Charging time: 8 hours., Lighting time: 8 nights+ ., LiFePO4 Lithium battery: 57.72Wh (15.6AH, 3.7 V), Lamp dimensions: 315mm x 190mm., Operating temperature from -20°C up to +60°C.

6 lighting modes: 3 modes for indoors and 3 modes for outdoors. Remote controller can: turn the light ON/OFF, select a required working mode, adjust brightness and to set a timer of 3h or 5h., LED Indicator shows 3 levels of power capacity and indoor/outdoor mode indication.

Intelligent lighting technology ALS2.0 + VFT + TCS for All Night Lighting, even in Cloudy or Rainy Day., Material: Aluminium alloy & tempered glass., Exposure to sunlight has a direct affect on battery charging time.

## PRICE

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## FEATURES

Gross Weight:	<b>3.75 kg</b>
Height (with packaging):	<b>57.80 cm</b>
Length (with packaging):	<b>73.30 cm</b>
Width (with packaging):	<b>16.00 cm</b>



## DESCRIPTION

Visibly emitted light is 5000 lumens (500W), Light spectrum : Cool White (6000K±500K), Amount of LED's - 50pcs., Power of the solar panel is 14.3W., Waterproof IP65., Application ideas: Garage/warehouse/Roadway /pathway /Parking Lot /Private road /Sidewalk /Public square.

GERMAN BRAND. 2 YEARS WARRANTY. EXCEPTIONAL CUSTOMER SERVICE. Products have been tested and manufactured to comply with the following standards: CE, RoHS, FCC. (These certificates are available upon a request).

Charging time: 8 hours., Lighting time: 8 nights+ ., LiFePO4 Lithium battery: 86.58 Wh (23.4AH, 3.7 V), Lamp dimensions: 315mm x 190mm., Operating temperature from -20°C up to +60°C.

6 lighting modes: 3 modes for indoors and 3 modes for outdoors. Remote controller can: turn the light ON/OFF, select a required working mode, adjust brightness and to set a timer of 3h or 5h., LED Indicator shows 3 levels of power capacity and indoor/outdoor mode indication.

Intelligent lighting technology ALS2.0 + VFT + TCS for All Night Lighting, even in Cloudy or Rainy Day., Material: Aluminium alloy & tempered glass., Exposure to sunlight has a direct affect on battery charging time.

## PRICE

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## FEATURES

Gross Weight:	<b>1.27 kg</b>
Height (with packaging):	<b>28.00 cm</b>
Length (with packaging):	<b>18.00 cm</b>
Width (with packaging):	<b>18.00 cm</b>



## DESCRIPTION

visibly emitted light is 100 lumens, Light spectrum: warm white (3000K ± 300K)., Quantity of LEDs - 7pcs., The power of the solar panel is 1.6W., IP65 waterproofing., Ideas for application: Garden / Park / Path / Wall / Building / Yard.

GERMAN BRAND. 2 YEAR WARRANTY. EXCEPTIONAL CUSTOMER SERVICE. The products have been tested and manufactured according to the following standards: CE, RoHS, FCC. (These certificates are available on request).,

Charging time: 8 hours., Lighting time: 6-7 nights., LiFePO4 lithium battery: 9.25 Wh (2.5AH, 3.7 V)., Lamp dimensions: 265mm x 159mm., Operating temperature from - 20 ° C to + 60 ° C.,

2 lighting modes: a) brightness of 50 lumens for 5 hours + 25 lumens until dawn., B) brightness of 50 lumens until dawn., The lamp begins to operate automatically at a level of light below 10 lux and stopped working at a light level above 50 lux.,

ALS2.0 + VFT + TCS intelligent lighting technology for night lighting (" All Night Lighting "), even in cloudy or rainy weather., Material: Polycarbonate plastic., Sun exposure has a direct effect on the battery charging time.

## PRICE

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## FEATURES

Gross Weight:	<b>1.67 kg</b>
Height (with packaging):	<b>33.50 cm</b>
Length (with packaging):	<b>27.50 cm</b>
Width (with packaging):	<b>17.50 cm</b>



## DESCRIPTION

Visibly emitted light is 100 lumens, Light spectrum: warm white (3000K ± 300K), Quantity of LEDs - 7pcs., The power of the solar panel is 1.6W., IP65 waterproofing., Ideas for application: Garden / Park / Path / Wall / Building / Yard.

GERMAN BRAND. 2 YEAR WARRANTY. EXCEPTIONAL CUSTOMER SERVICE. The products have been tested and manufactured according to the following standards: CE, RoHS, FCC. (These certificates are available on request).

Charging time: 8 hours., Lighting time: 6-7 nights., LiFePO4 lithium battery: 9.25 Wh (2.5AH, 3.7 V), Lamp dimensions: 265mm x 159mm., Pole length of fixing is 530 mm., operating temperature from -20 °C to + 60 °C.,

2 lighting modes: a) brightness of 50 lumens for 5 hours + 25 lumens until dawn., B) brightness of 50 lumens until dawn., The lamp begins to operate automatically at a level of light below 10 lux and stopped working at a light level above 50 lux.,

ALS2.0 + VFT + TCS intelligent lighting technology for night lighting (" All Night Lighting "), even in cloudy or rainy weather., Material: Polycarbonate plastic., Sun exposure has a direct effect on the battery charging time.

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## FEATURES

<i>Gross Weight:</i>	<b>6.40 kg</b>
<i>Height (with packaging):</i>	<b>65.80 cm</b>
<i>Length (with packaging):</i>	<b>109.00 cm</b>
<i>Width (with packaging):</i>	<b>36.20 cm</b>



## DESCRIPTION

## PRICE

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## FEATURES

<i>Gross Weight:</i>	<b>8.00 kg</b>
<i>Height (with packaging):</i>	<b>57.50 cm</b>
<i>Length (with packaging):</i>	<b>57.50 cm</b>
<i>Width (with packaging):</i>	<b>21.00 cm</b>



## DESCRIPTION

## PRICE

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## FEATURES

<i>Gross Weight:</i>	<b>5.85 kg</b>
<i>Height (with packaging):</i>	<b>51.00 cm</b>
<i>Length (with packaging):</i>	<b>51.00 cm</b>
<i>Width (with packaging):</i>	<b>21.30 cm</b>



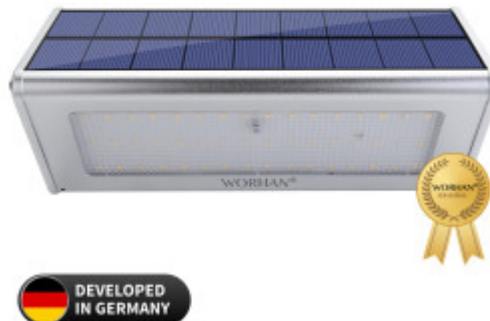
## DESCRIPTION

## PRICE

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## FEATURES

Gross Weight:	<b>0.70 kg</b>
Height (with packaging):	<b>8.50 cm</b>
Length (with packaging):	<b>24.00 cm</b>
Width (with packaging):	<b>10.50 cm</b>



## DESCRIPTION

Developed in Germany Light quantity : 25m2 of Lightning area / 900 Lumen Light quality: 48 pcs Epistar brand LED Chips Light spectrum : 4000K Lighting time: Up to 2 Days / 15 Seconds x 500 times Charging time : 6-8 Hours Polycrystalline Solar cells - highest sunlight conversation rate 4500mAh LiFePO4 Lithium battery with 5 years lifetime Sensors working range up to 10 meters, 180 degrees Installation height : up to 3 meters Fully outdoor compatible : Water resistant: IP65 / Frost resistant: -30C/ Hot Resistant: +60 C Aluminum alloy casing material prevent aging and corrosion No 220-240V cables needed Working mode : The product is charged in the daytime by sunlight, and work at night time -automatically : it goes ON once movement is detected and remains ON for 15 seconds if no further movement is detected.



## PRICE

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## FEATURES

Gross Weight:	<b>0.95 kg</b>
Height (with packaging):	<b>5.50 cm</b>
Length (with packaging):	<b>31.50 cm</b>
Width (with packaging):	<b>10.50 cm</b>



## DESCRIPTION

Developed in Germany Light quantity : 30m2 of Lightning area / 900 Lumen Light quality: 60 pcs Epistar brand LED Chips Light spectrum : 4000K Lighting time: Up to 2 Days / 15 Seconds x 500 times Charging time : 6-8 Hours Polycrystalline Solar cells - highest sunlight conversation rate 6000mAh LiFePO4 Lithium battery with 5 years lifetime Sensors working range up to 10 meters, 180 degrees Installation height : up to 3 meters Fully outdoor compatible : Water resistant: IP65 / Frost resistant: -30C/ Hot Resistant: +60 C Aluminum alloy casing material prevent aging and corrosion No 220-240V cables needed Working mode : The product is charged in the daytime by sunlight, and work at night time -automatically : it goes ON once movement is detected and remains ON for 15 seconds if no further movement is detected.

## PRICE

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## FEATURES

Gross Weight:	<b>0.70 kg</b>
Height (with packaging):	<b>9.00 cm</b>
Length (with packaging):	<b>24.00 cm</b>
Width (with packaging):	<b>11.00 cm</b>



## DESCRIPTION

Developed in Germany Light quantity : 25m2 of Lightning area / 900 Lumen Light quality: 48 pcs Epistar brand LED Chips Light spectrum : 4000K Lighting time: Up to 2 Days / 15 Seconds x 500 times Charging time : 6-8 Hours Polycrystalline Solar cells - highest sunlight conversation rate 4500mAh LiFePO4 Lithium battery with 5 years lifetime Sensors working range up to 10 meters, 180 degrees Installation height : up to 3 meters Fully outdoor compatible : Water resistant: IP65 / Frost resistant: -30C/ Hot Resistant: +60 C Aluminum alloy casing material prevent aging and corrosion No 220-240V cables needed Working mode : The product is charged in the daytime by sunlight, and work at night time -automatically : it goes ON once movement is detected and remains ON for 15 seconds if no further movement is detected.

## PRICE

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## FEATURES

Gross Weight:	<b>2.50 kg</b>
Height (with packaging):	<b>46.50 cm</b>
Length (with packaging):	<b>26.00 cm</b>
Width (with packaging):	<b>20.50 cm</b>



## DESCRIPTION

Developed in Germany Light quantity : 40m2 of Lightning area / 1000 Lumen Light quality: 36 pcs Epistar brand LED Chips  
Light spectrum : 3000K Lighting time: Dimmed light (20% brightness) during dark period, if movement detected then 100%  
brightness fo 30seconds. Charging time : 6-7 Hours Polycrystalline Solar cells - highest sunlight conversation  
rate 6000mAh LiFePO4 Lithium battery with 5 years lifetime Sensors working range up to 10 meters, 180 degrees Installation height :  
up to 3 meters Fully outdoor compatible : Water resistant: IP65 / Frost resistant: -30C/ Hot Resistant: +60 C Aluminum alloy casing  
material prevent aging and corrosion No 220-240V cables needed Working mode : The product is charged in the daytime by sunlight,  
and work at night time -automatically : it goes ON once movement is detected and remains ON for 15 seconds if no further movement  
is detected.

## PRICE

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## FEATURES

Gross Weight:	<b>5.80 kg</b>
Height (with packaging):	<b>15.00 cm</b>
Length (with packaging):	<b>57.00 cm</b>
Width (with packaging):	<b>41.00 cm</b>



## DESCRIPTION

Developed in Germany Light quantity : 30m2 of Lightning area / 934 Lumen Light quality: 120 pcs OSRAM brand LED Chips  
Light spectrum : 4000K Lighting time: All night at brightness level selected by customer Charging time : 6-7 Hours  
Polycrystalline Solar cells - highest sunlight conversation rate 13000mAh LiFePO4 Lithium battery with 5 years lifetime Installation  
height : up to 3-4meters Fully outdoor compatible : Water resistant: IP65 / Frost resistant: -30C/ Hot Resistant: +60 C No 220-240V  
cables needed Working mode : The lamp is charged during the daytime by sunlight, and turns ON automatically when it gets dark. No  
user interaction required.

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## FEATURES

Gross Weight:	<b>7.30 kg</b>
Height (with packaging):	<b>16.00 cm</b>
Length (with packaging):	<b>61.00 cm</b>
Width (with packaging):	<b>43.00 cm</b>



## DESCRIPTION

Imported Developed in Germany Light quantity : 50m2 of Lightning area / 1140 Lumen Light quality: 260 pcs OSRAM brand LED Chips Light spectrum : 4000K Lighting time: All night at brightness level selected by customer Charging time : 6-7 Hours Polycrystalline Solar cells - highest sunlight conversation rate 20000mAh LiFePO4 Lithium battery with 5 years lifetime Installation height : up to 4-5meters Fully outdoor compatible : Water resistant: IP65 / Frost resistant: -30C/ Hot Resistant: +60 C No 220-240V cables needed Working mode : The lamp is charged during the daytime by sunlight, and turns ON automatically when it gets dark. No user interaction required. product from containers - LS80H

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## FEATURES

Gross Weight:	<b>0.42 kg</b>
Height (with packaging):	<b>12.30 cm</b>
Length (with packaging):	<b>11.50 cm</b>
Width (with packaging):	<b>8.50 cm</b>



## DESCRIPTION

Developed in Germany Light quantity : 10m2 of Lightning area / 450 Lumen Light quality: 24 pcs Epistar brand LED Chips Light spectrum : 4000K Lighting time: Up to 2 Days / 15 Seconds x 500 times Charging time : 6-8 Hours Polycrystalline Solar cells - highest sunlight conversation rate 1500mAh LiFePO4 Lithium battery with 5 years lifetime Sensors working range up to 10 meters, 180 degrees Installation height : up to 3 meters Fully outdoor compatible : Water resistant: IP65 / Frost resistant: -30C/ Hot Resistant: +60 C Aluminum alloy casing material prevent aging and corrosion No 220-240V cables needed Working mode : The product is charged in the daytime by sunlight, and work at night time -automatically : it goes ON once movement is detected and remains ON for 15 seconds if no further movement is detected.