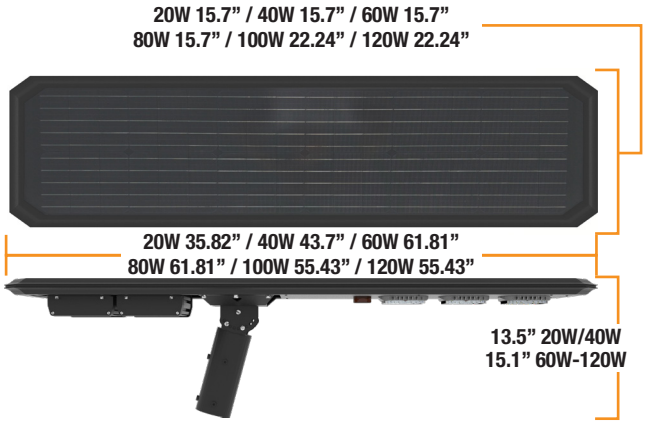
Solar All in One PRO Street Light



Our All in One Pro Series is economical, easy to install, completely off grid, unique new design with all the solar lighting advantages is great solution for area such as pathway, parking lot, roadway, trails or any remote area that have no access to conventional Power. Our all in one PRO series features an integrated solar panel, battery and Light fixture with easy to install mounting eliminates trenching to bury electrical wires and the savings continues since there is no monthly electrical bill.

- Economical, Easily to install, all in one integrated with fixture on one side and panel on the other side.
- Philips High Efficiency LEDs with heat dissipation design, pure aluminum lamp base with seal lens for an optimal lighting and life span.
- Batwing Lens for a perfect illumination and uniformity
- The light automatically switches on at dusk and switches off at dawn. 30% permanent lighting, when motion is detected power turns to 100%.
- Eco-Friendly and safe LifePO4 battery and discharge over 2000 times has life span of more then 10 years
- MPPT controller automatically track the maximum power point according to the weather variation, charging rate 16 to 30%
- 140 Lumen per watt and IP65 Rated
- 5 Years warranty on all components

Features

- IP68 Rated
- Anti Black Out Intelligent Management
- Extreme Temp Rating: -4°F to 149°F
- 97% Charging Efficiency
- Battery Life Span Over 10 Years
- IR Remote Control Monitoring
- Anti-Theft Hardware
- 4 Levels of Dimming Design & Auto Identify Day/Night

5 Year Limited Warranty

BEYOND SOLAR

CE IEC ISO IP65 RoHS

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Solar All in One PRO Street Light

Specifications

Model #	SKU #	Power	PV Type	Solar Panel	Lithium Battery	Lumens	CCT	Charge Time (Hrs)	Weight (Lb)	Installation Height (Ft)
AVS-PRO-20W	990101	20W	MONO	60W	18AH	2800LM	5000K	6-7 Hrs	27.5	15
AVS-PRO-40W	990102	40W	MONO	72W	24AH	5600LM	5000K	6-7 Hrs	34.78	20
AVS-PRO-60W	990103	60W	MONO	105W	42AH	8400LM	5000K	6-7 Hrs	51.8	20
AVS-PRO-80W	990104	80W	MONO	105W	52AH	11000LM	5000K	6-7 Hrs	54.01	25
AVS-PRO-100W	990106	100W	MONO	140W	62AH	14000LM	5000K	6-7 Hrs	60.17	25
AVS-PRO-120W	990107	120W	MONO	140W	72AH	16800lm	5000K	6-7 Hrs	62.37	30

ALL YOU NEED IN ONE SOLAR LIGHT

Applications

- Apartment Complex
- Office Buildings
- Pathways
- Parking Lots
- Highways
- Sidewalks

RoHS IP65 ISO IEC CE

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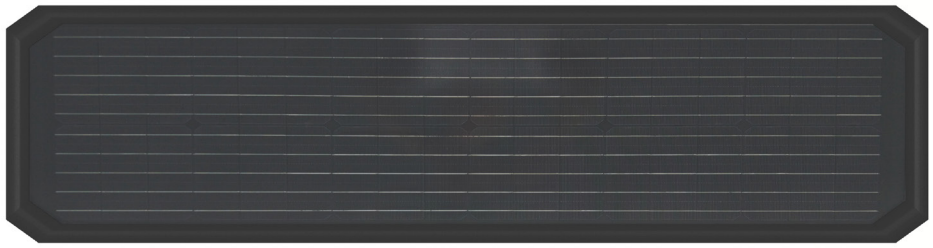
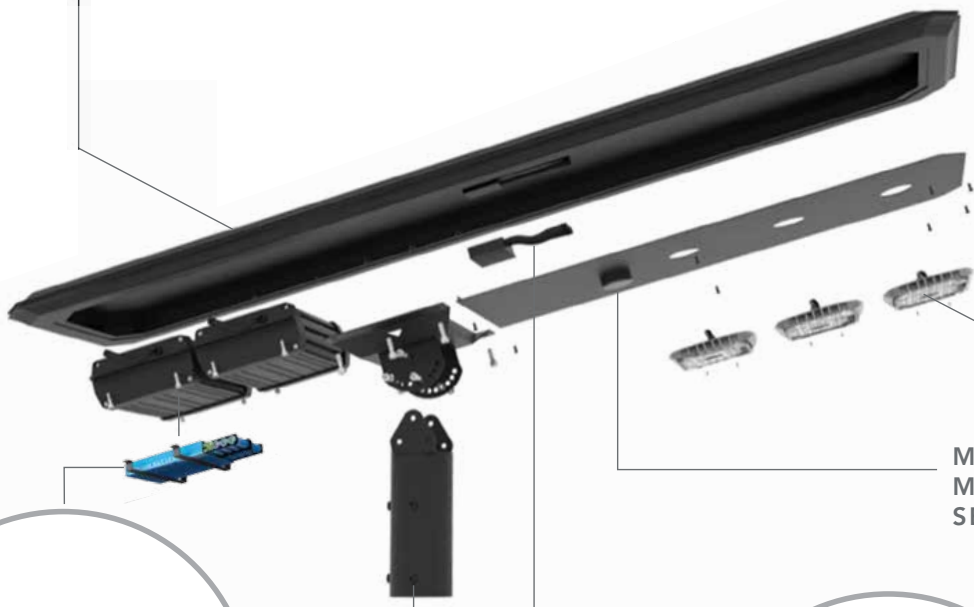
Solar All in One PRO Street Light

Product Design and Benefits



SOLAR PANEL



LED

MICROWAVE
MOTION
SENSOR

ANTI-THEFT
SCREWS

SAFE
No explosion risk

BATTERY
LITHIUM LIFEPO4

MPPT / SMART CONTROLLER
97% CHARGING EFFICIENCY

5 Year Limited Warranty

BEYOND SOLAR

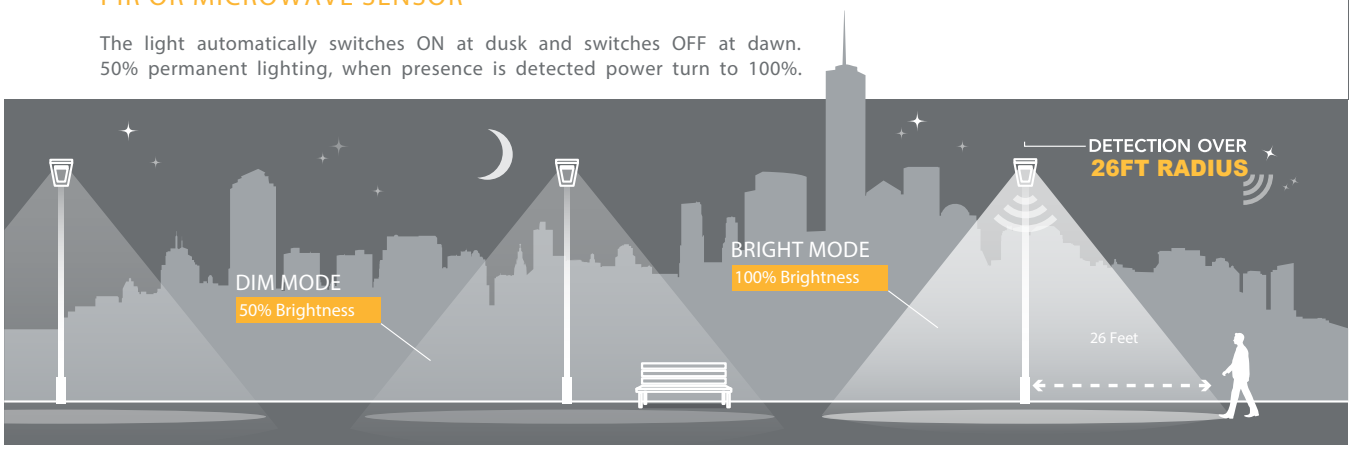
CE IEC ISO IP65 RoHS

Solar All in One PRO Street Light

Motion Sensor

PIR OR MICROWAVE SENSOR

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



ANTI BLACK OUT

Optimal component calibration and intelligent management system

UNEQUALED LIFETIME

Selection of the latest and highest component technology

EXTREME TEMPERATURE

Resistant
-4°F to 149°F

Correlated Color Temperature

5000K

Cool White **Neutral White** **Warm White**

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Solar All in One PRO Street Light

Lithium LifeP04 Battery

The Solar All in One PRO Street Light is equipped with Iron Phosphate Lithium LiFePo4 battery. This technology has proved to be **the best chemical technology for solar** application on the market.

With a cycle life of **over 4000 Cycles @ 80% DOD, the battery enjoys over 10 years lifetime**.

EASY MAINTENANCE
& ANTI THEFT SCREWS

Easy and direct access to the battery casing for maintenance. The fixation are made with **anti theft screws**, which request special tooling to unscrew.

ELECTRONIC PROTECTION
BATTERY MANAGEMENT SYSTEM (BMS)

The electronic algorithm **protects the battery** from operating outside its safe area. Monitoring its state, calculating secondary data, reporting that data, controlling its environment, authenticating it and / or balancing it.

The BMS offers MULTI PROTECTION :

- OVER/UNDER LOAD
- OVER/UNDER CURRENT
- OVER/UNDER VOLTAGE
- OVER CHARGE & DISCHARGE
- TEMPERATURE MANAGEMENT

EXTREME TEMPERATURE DOWN TO 14°F.*

Standard Lithium LiFePo4 batteries have a working temperature range from 14°F to 158°F.

5 YEARS WARRANTY

With **Full battery Replacement.**

ALUMINUM WATERPROOF CASING & NATURAL AIRFLOW

High temperatures greatly affect the battery's lifetime. This is why our batteries are encapsulated in an aluminum waterproof casing for **a perfect heat dissipation**.
In addition to that, the casing enjoy a natural airflow which keeps the battery to ambient temperature.

5 Year Limited Warranty

BEYOND SOLAR

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Solar All in One PRO Street Light

Smart MPPT Controller

The Solar All in One PRO Street Light is equipped with a High Quality MPPT Controller, using **top technology semiconductors**.

FEATURES

HIGH TRANSFER EFFICIENCY
Charging efficiency up to 98%

MINIMAL STAND-BY POWER CONSUMPTION
Current consumption ≤ **10mA**

INTELLIGENT BATTERY MANAGEMENT **3 Phases charging** :
MPPTT Charge / Constant Voltage /Floating Voltage.

INTELLIGENT LED DRIVER Auto detecting of Dusk and Dawn for automatic operation, 7 Lighting Programs Configuration.

ANTI BLACK OUT

ANTI BLACK OUT : Load adjust according to battery capacity assuring all night long lighting in any weather conditions.

BATTERY & SYSTEM PROTECTION :

- OVER / UNDER LOAD
- OVER / UNDER CURRENT
- OVER / UNDER VOLTAGE
- OVER CHARGE & DISCHARGE
- TEMPERATURE MANAGEMENT

REMOTE CONTROL MONITORING

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

RoHS IP65 ISO IEC CE

BEYOND SOLAR

5 Year Limited Warranty

Solar All in One PRO Street Light

AVS-PRO-20W

LED POWER	20 WATTS
LUMINOUS FLUX	3 000 LUMENS
LIGHTING	
Efficiency	150 LUMENS / WATTS
Chips	PHILIPS LUXEON
LED Lifetime	OVER 50000 HOURS LM80
Lighting Angle	99,2 DEGREE
Light Height	9.8 FT TO 13.1 FT
STORAGE	
Technology	LITHIUM IRON PHOSPHATE LIFEPO4 - 26650
Capacity	18 AH 12.8 VOLTS
Autonomy	OVER 24 HOURS AT FULL CHARGE - 4 RAINY DAYS BACK UP
Charging time	6-7 HOURS
Lifespan	OVER 4000 CYCLES @ 80% DOD OVER 10 YEARS LIFETIME
Working Temp.	14°F TO 158°F
ENERGY	
Solar panel	60 WATTS /18V
Cells type	MONOCRYSTALINE PANEL GRADE A 25 YEARS
Certificates	IEC 61215 ; IEC 61730 I AND II ; IEC 60904
ELECTRONIC	
Controller	MPPT SMART CONTROLLER (REMOTE MONITORING OPTIONAL)
Sensor	MICROWAVE 360 DEGREE MOTION SENSOR
Cabling	WATERPROOF CONNECTOR, PLUG AND PLAY
Protection	OVER LOAD/CURRENT/TEMP°/VOLTAGE/CHARGE/DISCHARGE
Certificates	EN 55015 ; EN 61000
MECHANICAL	
EPA (m2/ ft2)	0,280 / 3,01
Wind Load Rate	111.847 MPH
Pole Mounting Ø	3.50394 IN

5 Year Limited Warranty

BEYOND SOLAR

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Solar All in One PRO Street Light

AVS-PRO-40W

LED POWER	40 WATTS
LUMINOUS FLUX	6 000 LUMENS
LIGHTING	
Efficiency	150 LUMENS / WATTS
Chips	PHILIPS LUXEON
LED Lifetime	OVER 50000 HOURS LM80
Lighting Angle	99,2 DEGREE
Light Height	13.1 FT TO 16.4 FT
STORAGE	
Technology	LITHIUM IRON PHOSPHATE LIFEPO4 - 26650
Capacity	24 AH 12.8 VOLTS
Autonomy	OVER 24 HOURS AT FULL CHARGE - 4 RAINY DAYS BACK UP
Charging time	6-7 HOURS
Lifespan	OVER 4000 CYCLES @ 80% DOD OVER 10 YEARS LIFETIME
Working Temp.	14°F TO 158°F
ENERGY	
Solar panel	72 WATTS /18V
Cells type	MONOCRYSTALINE PANEL GRADE A 25 YEARS
Certificates	IEC 61215 ; IEC 61730 I AND II ; IEC 60904
ELECTRONIC	
Controller	MPPT SMART CONTROLLER (REMOTE MONITORING OPTIONAL)
Sensor	MICROWAVE 360 DEGREE MOTION SENSOR
Cabling	WATERPROOF CONNECTOR, PLUG AND PLAY
Protection	OVER LOAD/CURRENT/TEMP°/VOLTAGE/CHARGE/DISCHARGE
Certificates	EN 55015 ; EN 61000
MECHANICAL	
EPA (m2/ ft2)	0,330 / 3,55
Wind Load Rate	111.847 MPH
Pole Mounting Ø	3.50394 IN

RoHS IP65 ISO IEC CE

BEYOND SOLAR

5 Year Limited Warranty

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Solar All in One PRO Street Light

AVS-PRO-60W

LED POWER	60 WATTS
LUMINOUS FLUX	9 000 LUMENS
LIGHTING	
Efficiency	150 LUMENS / WATTS
Chips	PHILIPS LUXEON
LED Lifetime	OVER 50000 HOURS LM80
Lighting Angle	99,2 DEGREE
Light Height	19.7 FT TO 26.2 FT
STORAGE	
Technology	LITHIUM IRON PHOSPHATE LIFEPO4 - 26650
Capacity	42 AH 12.8 VOLTS
Autonomy	OVER 24 HOURS AT FULL CHARGE - 4 RAINY DAYS BACK UP
Charging time	6-7 HOURS
Lifespan	OVER 4000 CYCLES @ 80% DOD OVER 10 YEARS LIFETIME
Working Temp.	14°F TO 158°F
ENERGY	
Solar panel	105 WATTS /18V
Cells type	MONOCRYSTALINE PANEL GRADE A 25 YEARS
Certificates	IEC 61215 ; IEC 61730 I AND II ; IEC 60904
ELECTRONIC	
Controller	MPPT SMART CONTROLLER (REMOTE MONITORING OPTIONAL)
Sensor	MICROWAVE 360 DEGREE MOTION SENSOR
Cabling	WATERPROOF CONNECTOR, PLUG AND PLAY
Protection	OVER LOAD/CURRENT/TEMP°/VOLTAGE/CHARGE/DISCHARGE
Certificates	EN 55015 ; EN 61000
MECHANICAL	
EPA (m2/ ft2)	0,350 / 3,77
Wind Load Rate	111.847 MPH
Pole Mounting Ø	3.50394 IN

5 Year Limited Warranty

BEYOND SOLAR

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Solar All in One PRO Street Light

AVS-PRO-80W

LED POWER	80 WATTS
LUMINOUS FLUX	12 000 LUMENS
LIGHTING	
Efficiency	150 LUMENS / WATTS
Chips	PHILIPS LUXEON
LED Lifetime	OVER 50000 HOURS LM80
Lighting Angle	99,2 DEGREE
Light Height	19.7 FT TO 26.2 FT
STORAGE	
Technology	LITHIUM IRON PHOSPHATE LIFEPO4 - 26650
Capacity	52 AH 12.8 VOLTS
Autonomy	OVER 24 HOURS AT FULL CHARGE - 4 RAINY DAYS BACK UP
Charging time	6-7 HOURS
Lifespan	OVER 4000 CYCLES @ 80% DOD OVER 10 YEARS LIFETIME
Working Temp.	14°F TO 158°F
ENERGY	
Solar panel	105 WATTS /18V
Cells type	MONOCRYSTALINE PANEL GRADE A 25 YEARS
Certificates	IEC 61215 ; IEC 61730 I AND II ; IEC 60904
ELECTRONIC	
Controller	MPPT SMART CONTROLLER (REMOTE MONITORING OPTIONAL)
Sensor	MICROWAVE 360 DEGREE MOTION SENSOR
Cabling	WATERPROOF CONNECTOR, PLUG AND PLAY
Protection	OVER LOAD/CURRENT/TEMP°/VOLTAGE/CHARGE/DISCHARGE
Certificates	EN 55015 ; EN 61000
MECHANICAL	
EPA (m2/ ft2)	0,350 / 3,77
Wind Load Rate	111.847 MPH
Pole Mounting Ø	3.50394 IN

RoHS IP65 ISO IEC CE BEYOND SOLAR 5 Year Limited Warranty

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Solar All in One PRO Street Light

AVS-PRO-100W

LED POWER	100 WATTS
LUMINOUS FLUX	15 000 LUMENS
LIGHTING	
Efficiency	150 LUMENS / WATTS
Chips	PHILIPS LUXEON
LED Lifetime	OVER 50000 HOURS LM80
Lighting Angle	116 DEGREE
Light Height	19.7 FT TO 26.2 FT
STORAGE	
Technology	LITHIUM IRON PHOSPHATE LIFEPO4 - 26650
Capacity	62 AH 12.8 VOLTS
Autonomy	OVER 24 HOURS AT FULL CHARGE - 4 RAINY DAYS BACK UP
Charging time	6-7 HOURS
Lifespan	OVER 4000 CYCLES @ 80% DOD OVER 10 YEARS LIFETIME
Working Temp.	14°F TO 158°F
ENERGY	
Solar panel	140 WATTS /18V
Cells type	MONOCRYSTALINE PANEL GRADE A 25 YEARS
Certificates	IEC 61215 ; IEC 61730 I AND II ; IEC 60904
ELECTRONIC	
Controller	MPPT SMART CONTROLLER (REMOTE MONITORING OPTIONAL)
Sensor	MICROWAVE 360 DEGREE MOTION SENSOR
Cabling	WATERPROOF CONNECTOR, PLUG AND PLAY
Protection	OVER LOAD/CURRENT/TEMP°/VOLTAGE/CHARGE/DISCHARGE
Certificates	EN 55015 ; EN 61000
MECHANICAL	
EPA (m2/ ft2)	0,360 / 3,88
Wind Load Rate	111.847 MPH
Pole Mounting Ø	3.50394 IN

5 Year Limited Warranty

BEYOND SOLAR

CE IEC ISO IP65 RoHS

Solar All in One PRO Street Light

AVS-PRO-120W

LED POWER	120 WATTS
LUMINOUS FLUX	18 000 LUMENS
LIGHTING	
Efficiency	150 LUMENS / WATTS
Chips	PHILIPS LUXEON
LED Lifetime	OVER 50000 HOURS LM80
Lighting Angle	116 DEGREE
Light Height	19.7 FT TO 26.2 FT
STORAGE	
Technology	LITHIUM IRON PHOSPHATE LIFEPO4 - 26650
Capacity	72 AH 12.8 VOLTS
Autonomy	OVER 24 HOURS AT FULL CHARGE - 4 RAINY DAYS BACK UP
Charging time	6-7 HOURS
Lifespan	OVER 4000 CYCLES @ 80% DOD OVER 10 YEARS LIFETIME
Working Temp.	14°F TO 158°F
ENERGY	
Solar panel	140 WATTS /18V
Cells type	MONOCRYSTALINE PANEL GRADE A 25 YEARS
Certificates	IEC 61215 ; IEC 61730 I AND II ; IEC 60904
ELECTRONIC	
Controller	MPPT SMART CONTROLLER (REMOTE MONITORING OPTIONAL)
Sensor	MICROWAVE 360 DEGREE MOTION SENSOR
Cabling	WATERPROOF CONNECTOR, PLUG AND PLAY
Protection	OVER LOAD/CURRENT/TEMP°/VOLTAGE/CHARGE/DISCHARGE
Certificates	EN 55015 ; EN 61000
MECHANICAL	
EPA (m2/ ft2)	0,360 / 3,88
Wind Load Rate	111.847 MPH
Pole Mounting Ø	3.50394 IN

RoHS IP65 ISO IEC CE BEYOND SOLAR 5 Year Limited Warranty

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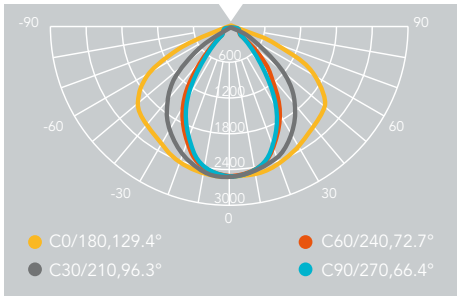
Solar All in One PRO Street Light

Light Distribution

AVS-PRO-20W

AVERAGE BEAM ANGLE (50%) : 99,2 DEG



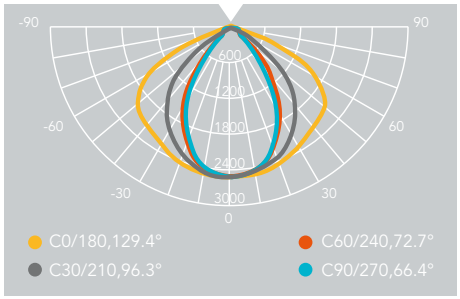
20 WATTS - 3000 LUMENS

LIGHT SOURCE **3030**	LED QTY (PCS) **40**	LENS (PCS) **1**	CRI **> 70**

SOLAR PANEL 60 WATTS

AVS-PRO-40W

AVERAGE BEAM ANGLE (50%) : 99,2 DEG



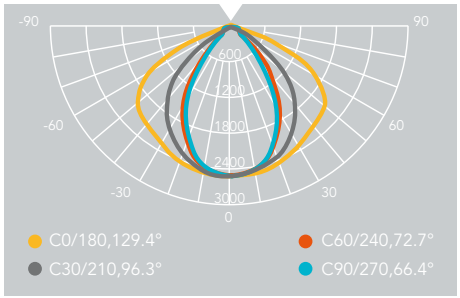
40 WATTS - 6000 LUMENS

LIGHT SOURCE **3030**	LED QTY (PCS) **40**	LENS (PCS) **2**	CRI **> 70**

SOLAR PANEL 72 WATTS

AVS-PRO-60W

AVERAGE BEAM ANGLE (50%) : 99,2 DEG



60 WATTS - 9000 LUMENS

LIGHT SOURCE **3030**	LED QTY (PCS) **40**	LENS (PCS) **3**	CRI **> 70**

SOLAR PANEL 105 WATTS

5 Year Limited Warranty

BEYOND SOLAR

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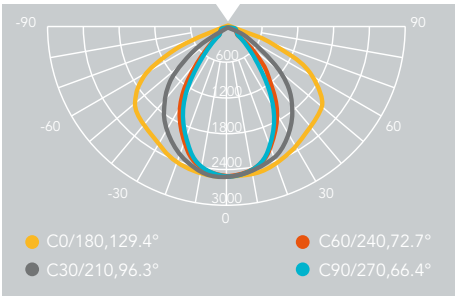
Solar All in One PRO Street Light

Light Distribution

AVS-PRO-80W

AVERAGE BEAM ANGLE (50%) : 99,2 DEG



80 WATTS - 12000 LUMENS

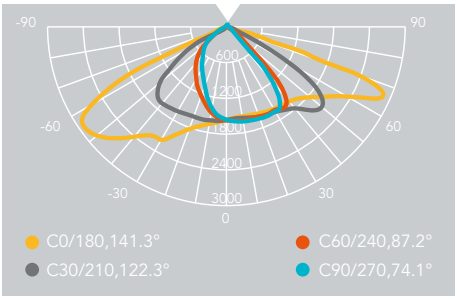
LIGHT SOURCE **3030**	LED QTY (PCS) **40**	LENS (PCS) **3**	CRI **> 70**

SOLAR PANEL 105 WATTS

GRADE A
Solar cells

AVS-PRO-100W

AVERAGE BEAM ANGLE (50%) : 116,2 DEG



100 WATTS - 15000 LUMENS

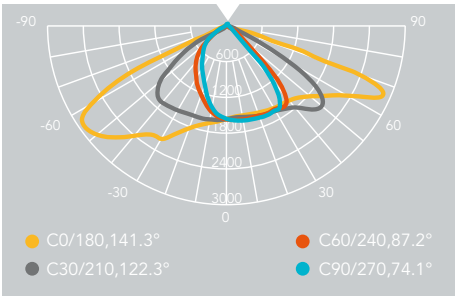
LIGHT SOURCE **3030**	LED QTY (PCS) **40**	LENS (PCS) **1**	CRI **> 70**

SOLAR PANEL 140 WATTS

GRADE A
Solar cells

AVS-PRO-120W

AVERAGE BEAM ANGLE (50%) : 116,2 DEG



120 WATTS - 18000 LUMENS

LIGHT SOURCE **3030**	LED QTY (PCS) **40**	LENS (PCS) **1**	CRI **> 70**

SOLAR PANEL 140 WATTS

GRADE A
Solar cells

RoHS IP65 ISO IEC CE

BEYOND SOLAR

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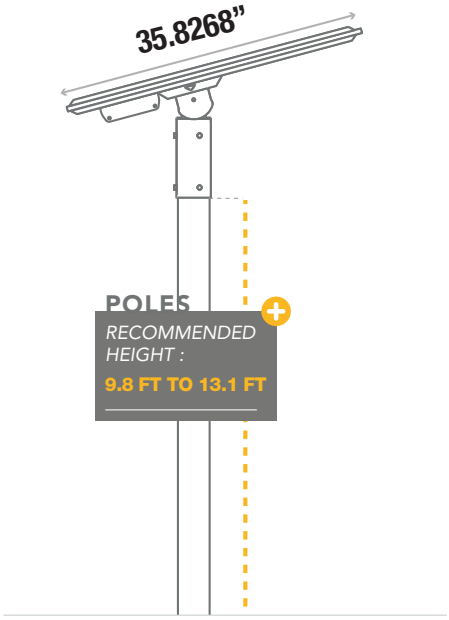
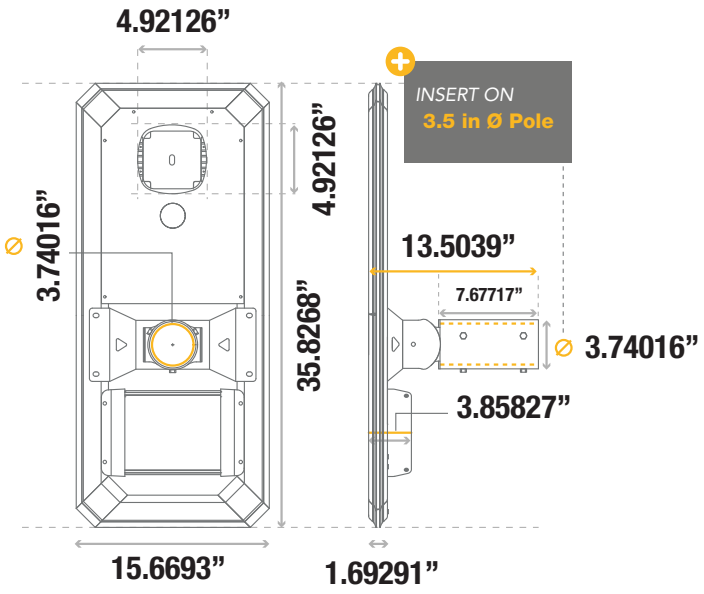
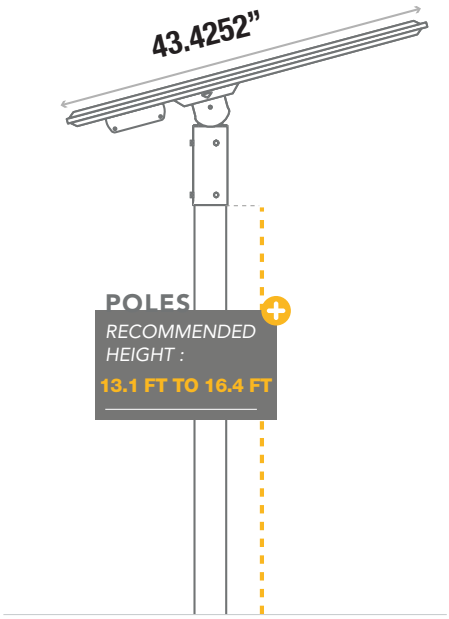
Solar All in One PRO Street Light

Dimensions

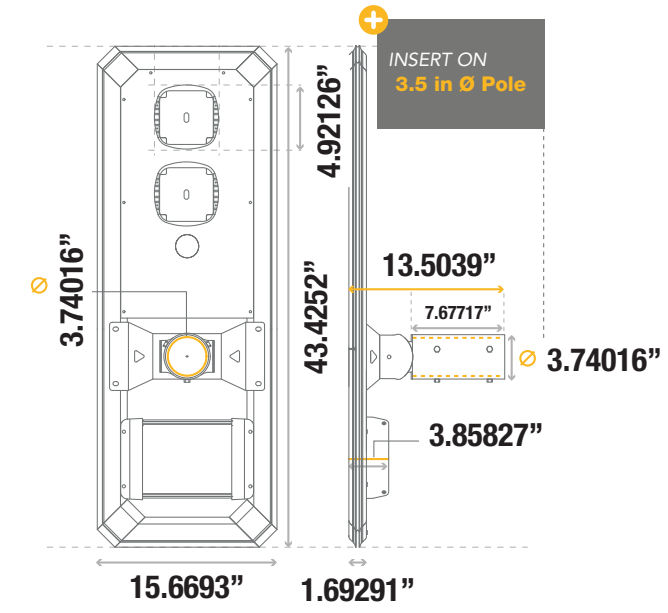


20W





40W



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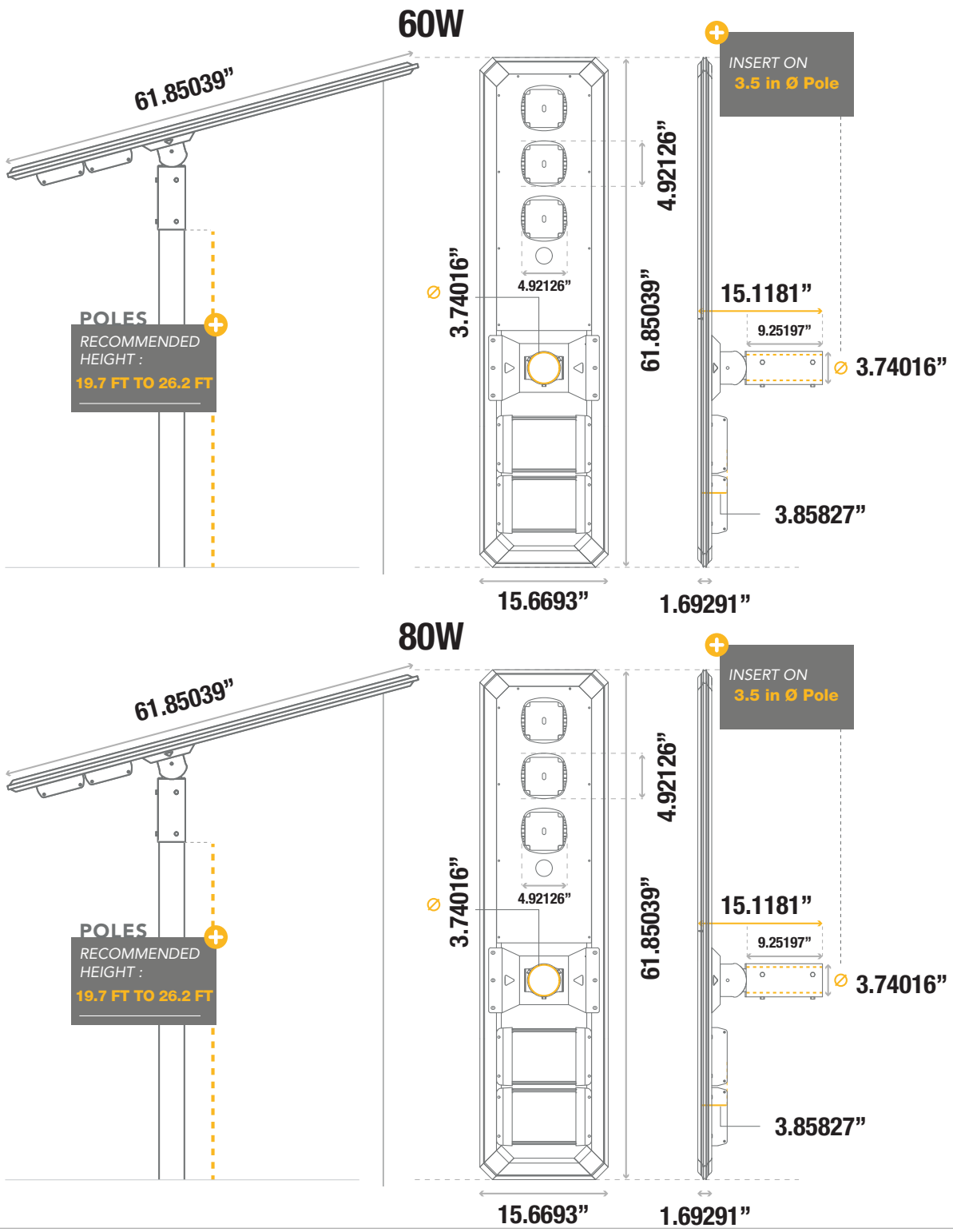
Solar All in One PRO Street Light

Dimensions



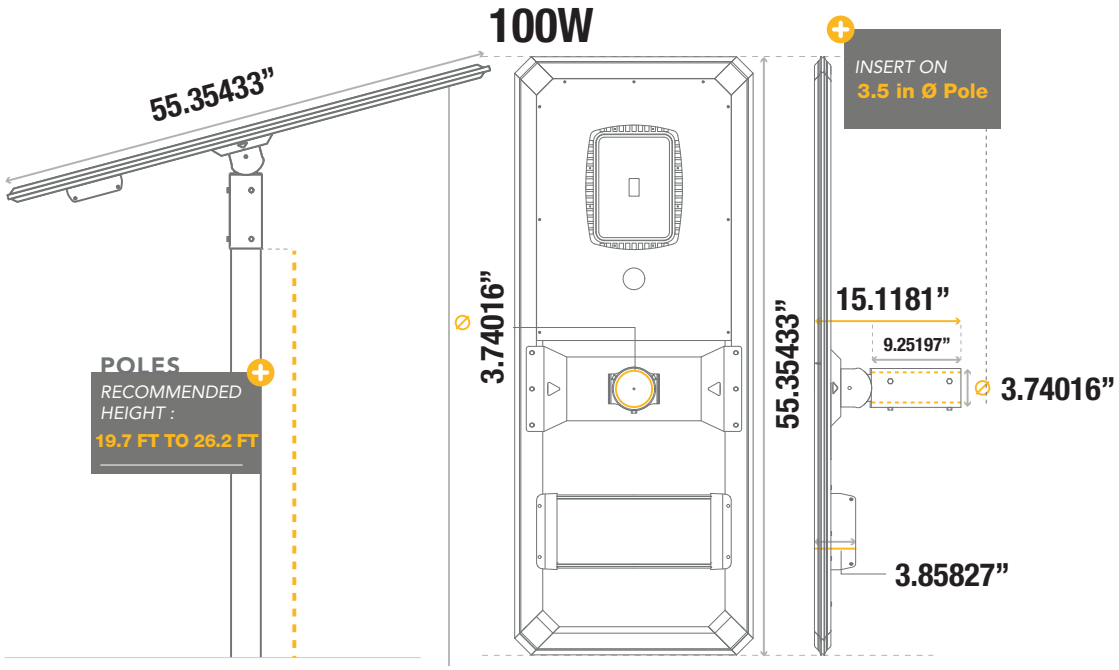
RoHS IP65 ISO IEC CE

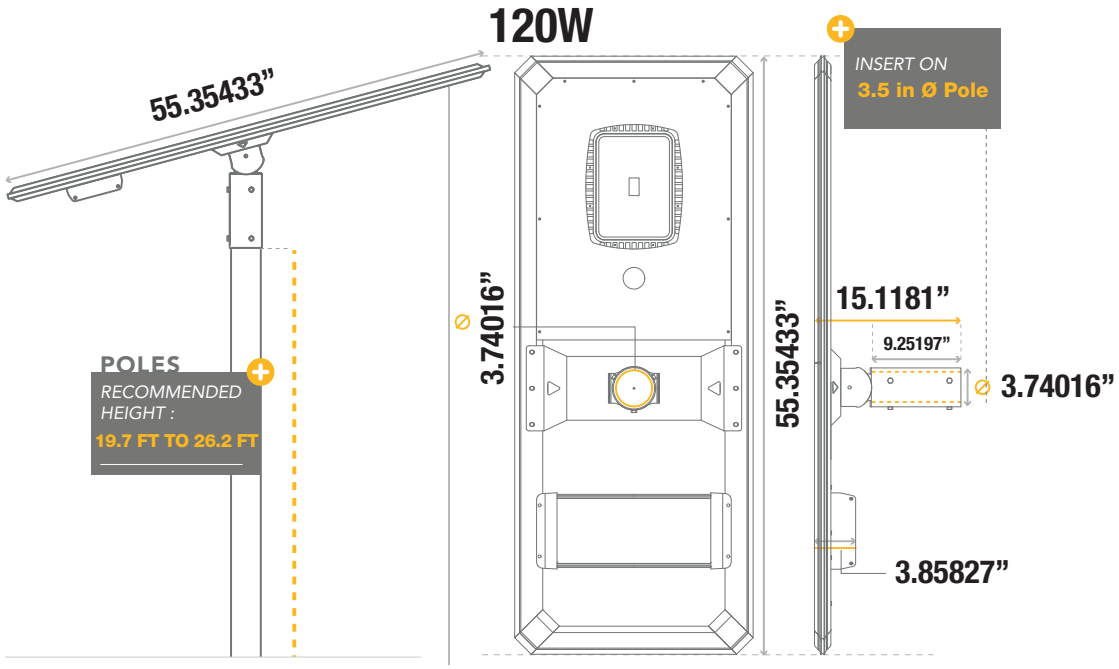
BEYOND SOLAR

5 Year Limited Warranty

Solar All in One PRO Street Light

Dimensions





5 Year Limited Warranty

BEYOND SOLAR

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Solar All in One PRO Street Light

Installation

The installation can be adjusted according to different environments or illumination needs.

With an awesomely designed bracket support, the Solar All in One PRO Street Light is very easy and flexible to install on most poles.

EASY INSTALLATION
JUST INSERT ON THE
TOP OF A POLE

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Solar All in One PRO Street Light

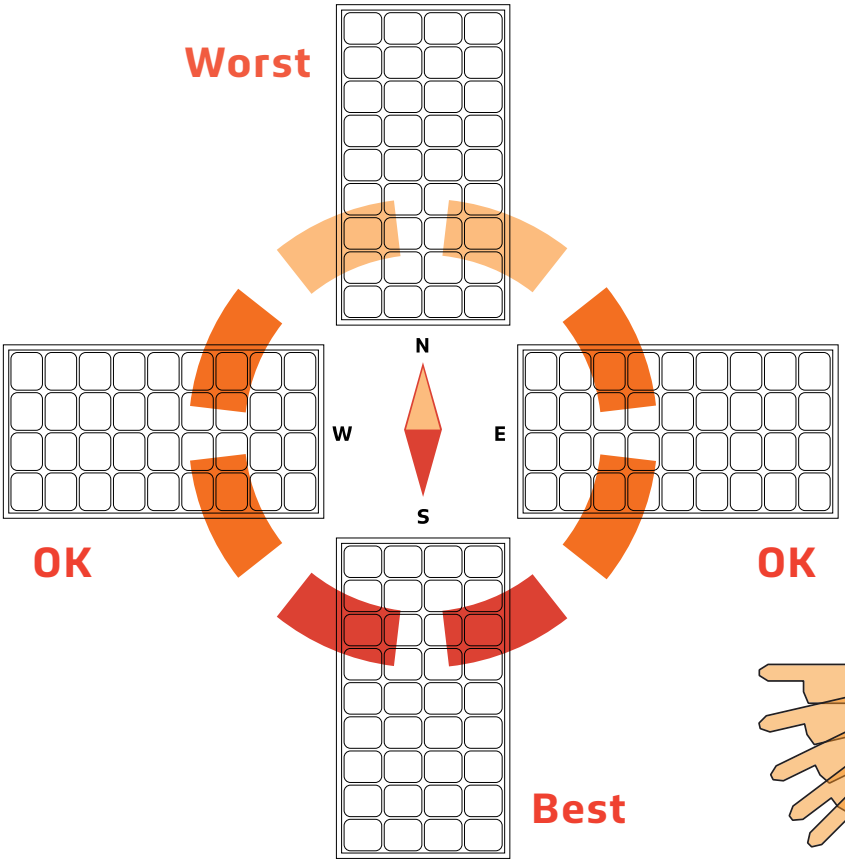
Optimum Panel Orientation

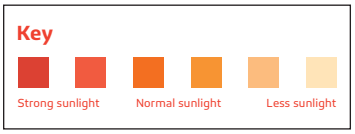
The Solar charge in a battery pack won't last forever. The off–grid system relies on stored solar energy for autonomy. Angling your solar panels properly can boost the power intake of your solar lighting system. You want to angle your solar panels at a tilt based on the area's latitude.

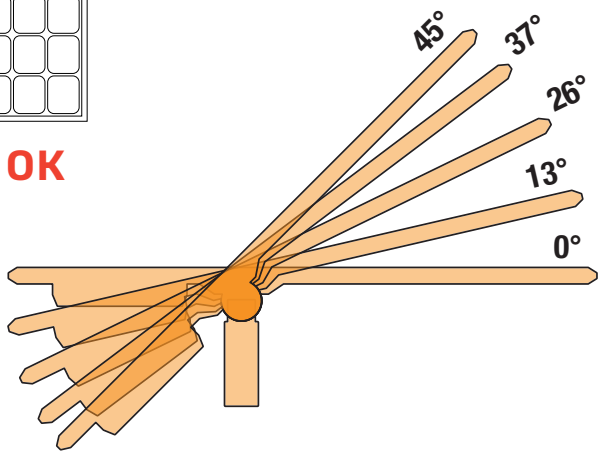
Tip for Maximum Power

You can increase the tilt 15° in the winter or decrease 15° in the summer.
In this way you can get the maximum sunlight to recharge the battrey.

Best Facing Direction of Solar Panel







The area will dictate the installation of the fixtures and will sometimes prevent the lights from facing south. Panels facing West & East won't get as much light as Southern facing panels, but will stillcollect a good amount of sunlight. A North facing panel also works, but it will take longer to charge than any other direction. This would mean that the solar charge will be less optimal if installations are facing North.

5 Year Limited Warranty

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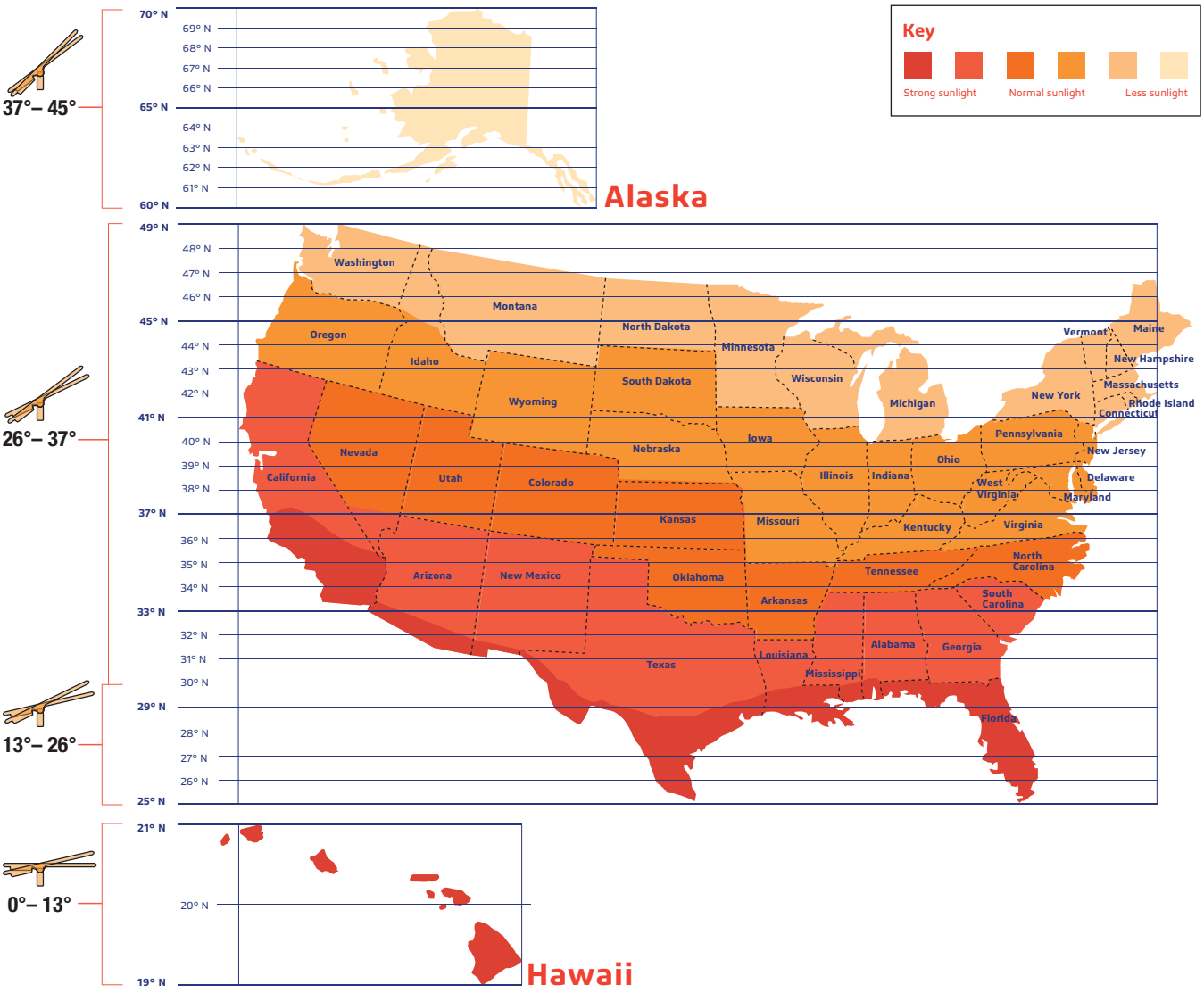
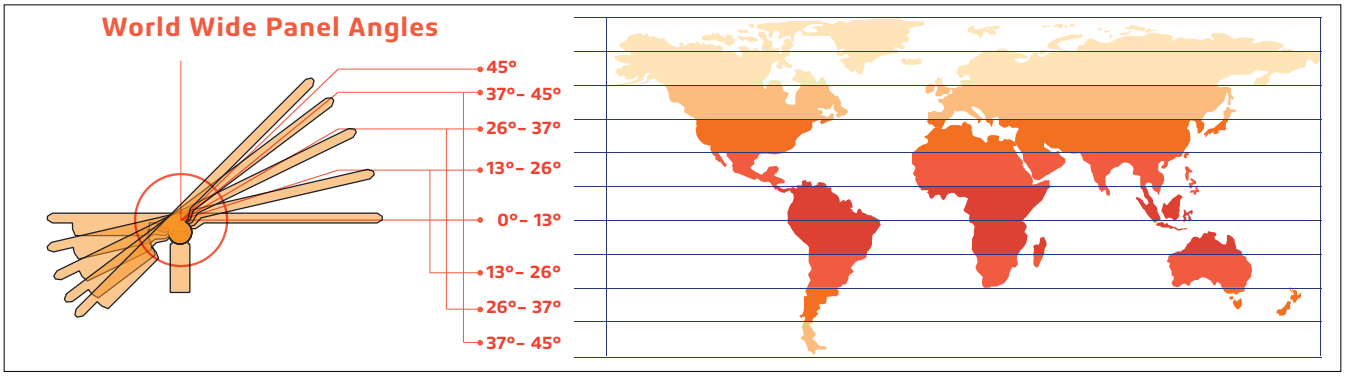
Solar All in One PRO Street Light

Optimum Panel Orientation





RoHS IP65 ISO IEC CE

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Solar All in One PRO Street Light

Packaging

AVS-PRO-20W

Unit size L x W x H	35.8268 X 15.6693 X 6.49606 IN
Carton size	37.9921 X 17.9134 X 9.44882 IN
Net weight	27.55778 LB
Gross weight	31.5261 LB
QTY per container 20" / 40"/ 40"HQ	240 / 505 / 577

AVS-PRO-40W

Unit size L x W x H	43.70079 X 15.748 X 6.49606 IN
Carton size	45.86614 X 17.9134 X 9.44882 IN
Net weight	34.83304 LB
Gross weight	40.78552 LB
QTY per container 20" / 40"/ 40"HQ	240 / 505 / 577

AVS-PRO-60W

Unit size L x W x H	61.81102 X 15.748 X 6.49606 IN
Carton size	63.97638 X 17.9134 X 9.44882 IN
Net weight	42.32875 LB
Gross weight	51.80863 LB
QTY per container 20" / 40"/ 40"HQ	150 / 323 / 358

AVS-PRO-80W

Unit size L x W x H	61.81102 X 15.748 X 6.49606 IN
Carton size	63.97638 X 17.9134 X 9.44882 IN
Net weight	44.423146 LB
Gross weight	54.23372 LB
QTY per container 20" / 40"/ 40"HQ	150 / 323 / 358

AVS-PRO-100W

Unit size L x W x H	55.43307 X 22.2441 X 5.90551 IN
Carton size	57.48031 X 24.0157 X 10.2362 IN
Net weight	48.832391 LB
Gross weight	60.296429 LB
QTY per container 20" / 40"/ 40"HQ	122 / 267 / 291

AVS-PRO-120W

Unit size L x W x H	55.43307 X 22.2441 X 5.90551 IN
Carton size	57.48031 X 24.0157 X 10.2362 IN
Net weight	51.037014 LB
Gross weight	64.705674 LB
QTY per container 20" / 40"/ 40"HQ	122 / 267 / 291

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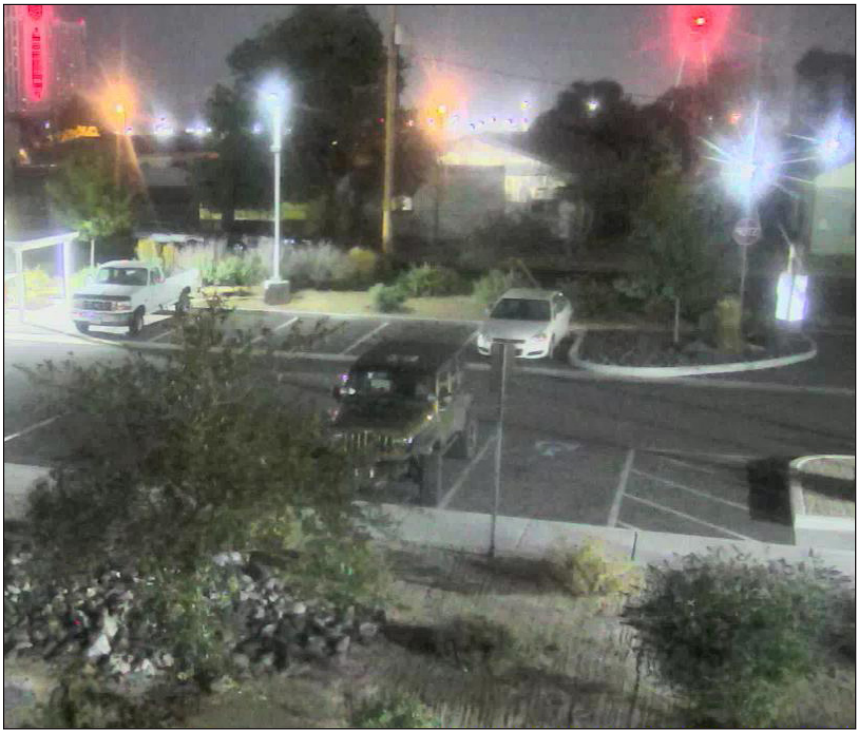
Solar All in One PRO Street Light

Application



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