



FEATURES:

- **Highly cost-effective no ducting, cables, additional groundworks and no energy requirements from the grid.**
- The integral design provides installation straight on to column. **no cable**, making the installation simple and convenient.
- Wireless remote control, adjusts lighting time, light output and sensitivity for automatic detection from one unit to optimise battery lifetime and outputs
- Optically controlled microwave induction and infrared sensor, provides automatic adjustment of intelligent power on, providing additional power savings for extended cloudy days.
- Fully-digital and high-precision constant current control delivering efficiency **>96%**
- High Quality Mono-crystalline solar panel.
- True constant current rather than current-limiting control, ensures smooth and stable output current, effectively reducing LED light attenuation to extend LED service life.
- **IP66** all alloy structure.

Three Intelligent Modes Example:

Bright / DIM / Recharge.

1. **Bright:** motion activated lighting when motion is detected for security light and to save battery.
2. **DIM:** 20% lighting for saving power when no motion, until motion activated.
3. **Off/Recharge:** automatically turns off in daylight and goes into recharge mode.

Working mode can be adjusted according to client requirements and environment.

Operation Ambient Temperature: **-15 to +50°C** Relative Humidity: **20~90%**
 Storage Ambient Temperature: **-15 to +60°C** Relative Humidity: **5~95%**

STAND ALONE CONTROL SYSTEM:

Intelligent controller for all adjustments and variations works through microwave or PIR sensor.

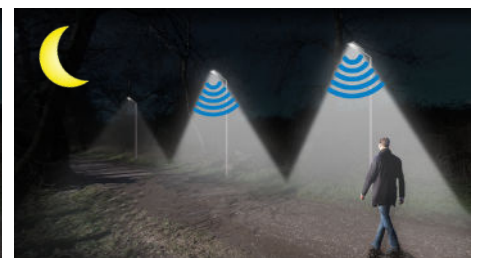
TIME DELAY CONTROL
LIGHT SENSOR CONTROL
MOTION SENSOR CONTROL



Day - Charging

Pre Set light levels

Presence Control provides increase of light level to preset requirements





DETAILS:

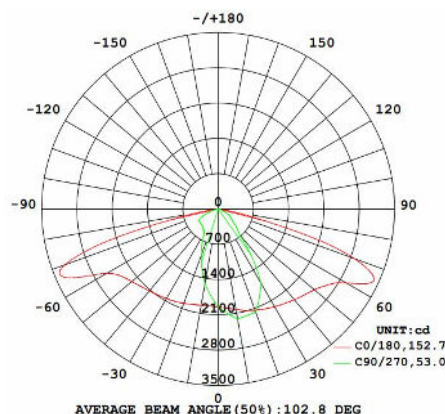
PRODUCT CODE	ARM-SOL-50AHWW	ARM-SOL-50AHNW
BATTERY	18650 lithium battery 12V 50 Ah	
BEAM ANGLE	150x70°	150x70°
POLE DIAMETER	60mm	60mm
LUMEN OUTPUT (EQUIVALENT 70W SON)	3000	3200
LED CHIPSET	LUXEON 5050	
SOLAR PANEL	MAXEON GEN 5 45W /18V monocrystalline silicon	
CRI	>80	
COLOUR TEMPERATURE	2700-3200K	4000-4500K
OPERATING TIME FROM FULL CHARGE	Full power: >12 hours, Intelligent mode: 3-4 days	
CONTROL MODE	Light Control + Sensor	
MATERIAL	Die Casting Aluminum	
LUMINOUS EFFICIENCY (lm/W)	160	
LIFESPAN (hrs)	>50000	
IP RATING	IP66	
SIZE (mm)	945x298x127	945x298x127
NET WEIGHT (kg)	10	10
PACKAGE SIZE (mm)	1000*340*180	1000*340*180
PACKAGE QUANTITY	1	1
GROSS WEIGHT (kg)	11.1	11.1

APPLICATION:

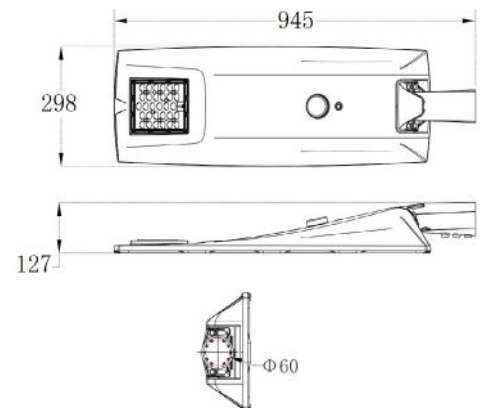
Suitable for:

- Park lighting,
- Perimeter lighting,
- Pathway lighting,
- Campus lighting,
- Airfield lighting,
- Ramp lighting,
- Boat dock lighting,
- Remote area lighting,

DISTRIBUTION CURVE:



DRAWINGS:



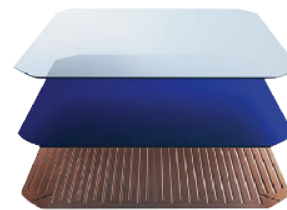
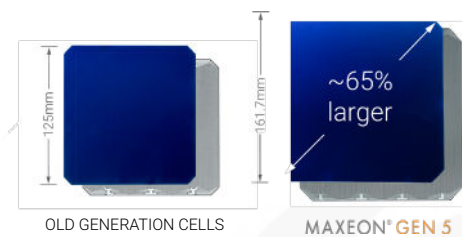
MADE USING

SUNPOWER®
MAXEON® GEN 5

MOST POWERFUL AND DURABLE
SOLAR CELLS



HIGH EFFICIENCY SOLAR CELL:



Highest Power Cell

SunPower's new Maxeon® Gen 5 cell is 65% larger than prior generations, delivering the most powerful cell and highest efficiency panel in commercial solar.

The result is more power per square meter than any commercially available solar.

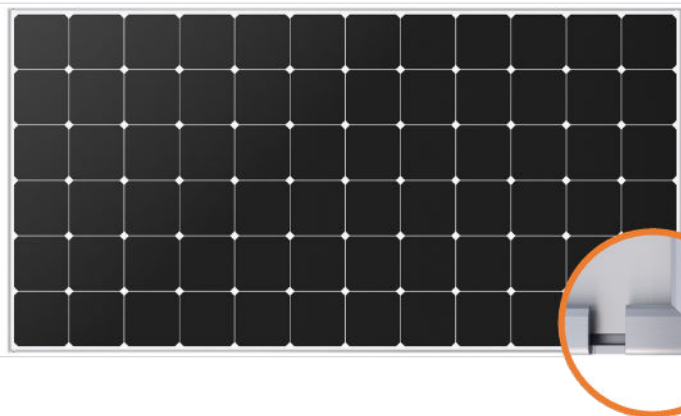
Maxeon® Technology

- Ultra-pure, n-type, monocrystalline silicon for maximum power
- Tin barrier prevents corrosion
- Uniquely durable back-contact design with no ribbons
- Clean and elegant aesthetics by designing out front contacts

TRUSTED DURABILITY:



Solid metal foundation helps cell bend where others break under pressure. Conductive and malleable foundation keeps cell electrically intact even if eventually cracked.

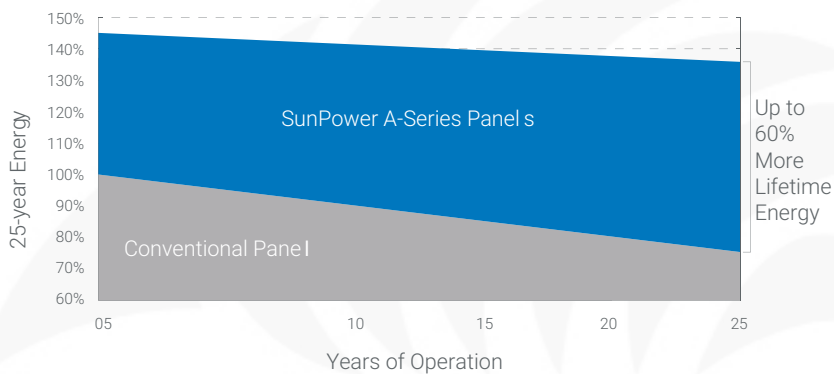


Reduced Soiling

New drainage notch improves performance

SUNPOWER® MAXEON® TECHNOLOGY

Designed to deliver up to 60% more energy from the same space over the first 25 years in real-world conditions like partial shade and high temperatures.



Up to 60% More Lifetime Energy

OPERATING CONDITION AND MECHANICAL DATA

Temperature:

40° F to +185° F (-40° C to +85° C)

Impact Resistance:

1 inch (25 mm) diameter hail at 52 mph (23 m/s)

Appearance:

Class A

Solar Cells:

72 Monocrystalline IBC cells

Tempered Glass:

High-transmission tempered anti-reflective

Junction Box:

IP-68, TE (PV4S)

Max. Test Load:

Wind: 125 psf, 6000 Pa, 611 kg/m² back

Snow: 187 psf, 9000 Pa, 917 kg/m² front

Design Load:

Wind: 75 psf, 3600 Pa, 367 kg/m² back

Snow: 125 psf, 6000 Pa, 611 kg/m² front

Frame:

Class 2 silver anodized