

### FEATURES:

- 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.

### STAND ALONE CONTROL SYSTEM:

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

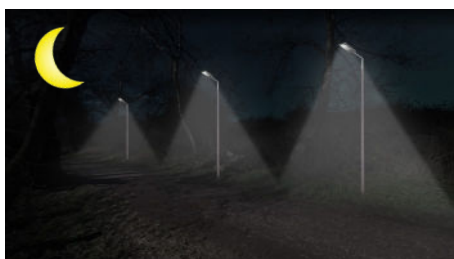
- TIME CONTROL
- LIGHT SENSOR CONTROL
- MOTION SENSOR CONTROL



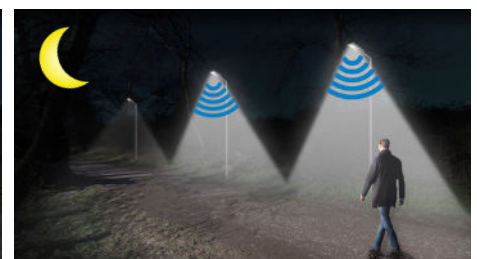
Day - Charging



Pre Set light levels



Presence Control provides increase of light level to your requirements



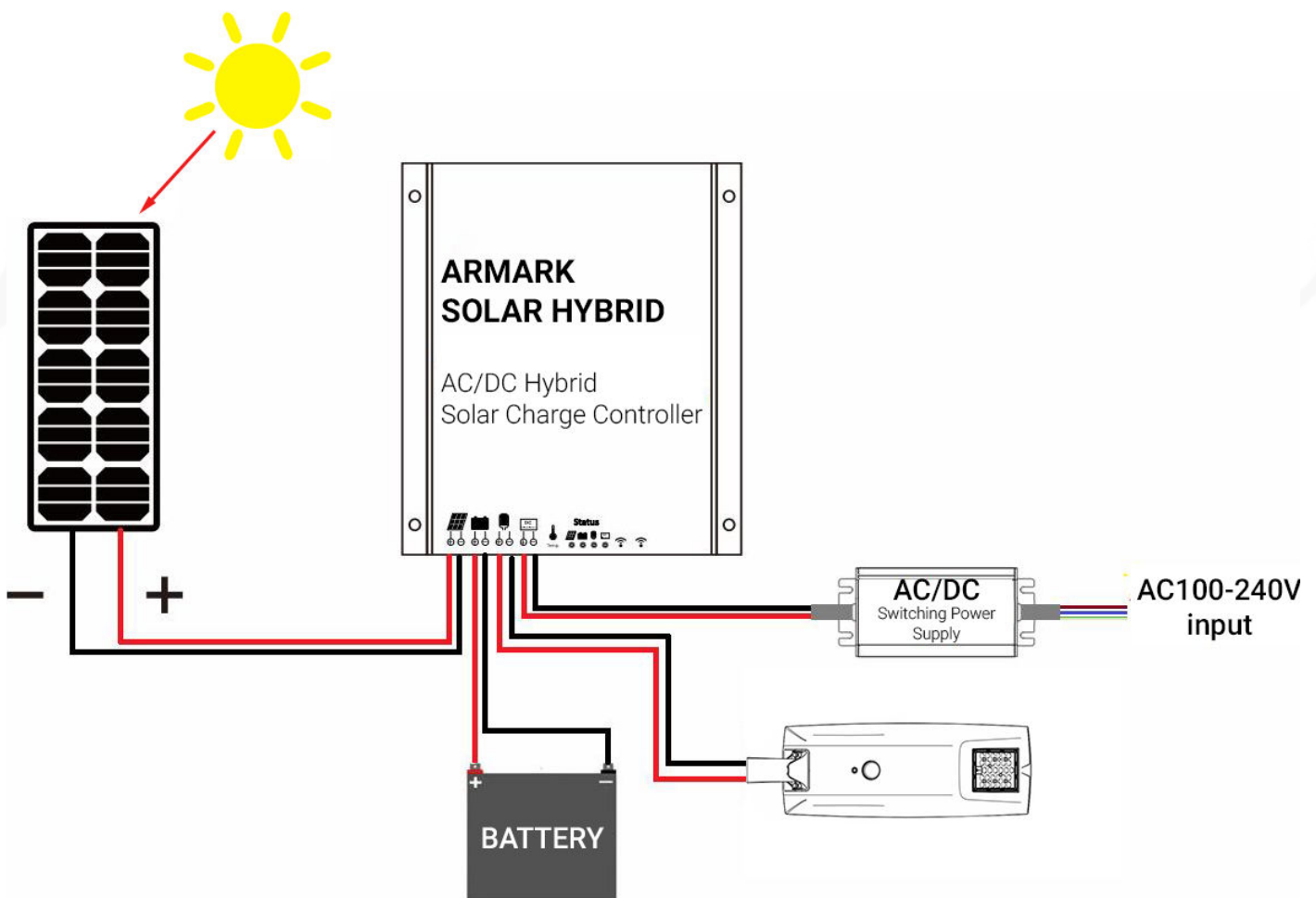


**AC/DC HYBRID SOLAR POWER SYSTEM:**

The Luminaire features a DC detection function for when, or if, the charge level from the battery is insufficient to power the required luminaire output, in the event no DC battery output is available the system will automatically switch to AC mains.

Once the Battery has significantly recovered the system will automatically switch back to the Battery DC supply and switch off AC mains input.

**SCHEMATIC DIAGRAM:**

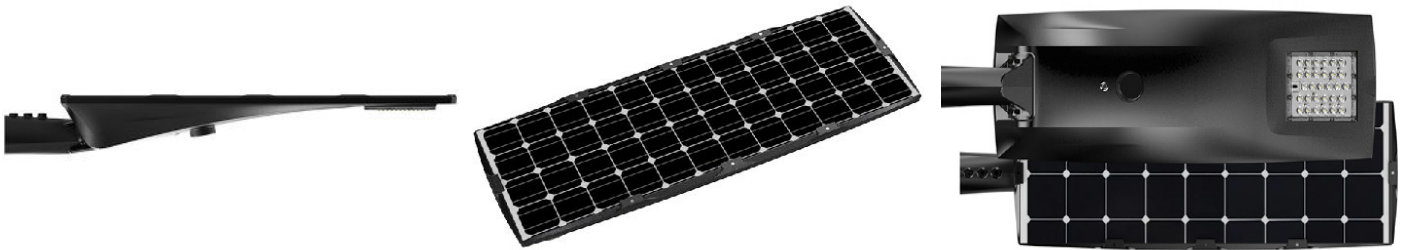


# ARMARK SOLAR HYBRID LED 50W



Solar LED Street Light

PRODUCT SPECIFICATION SHEET



## DETAILS:

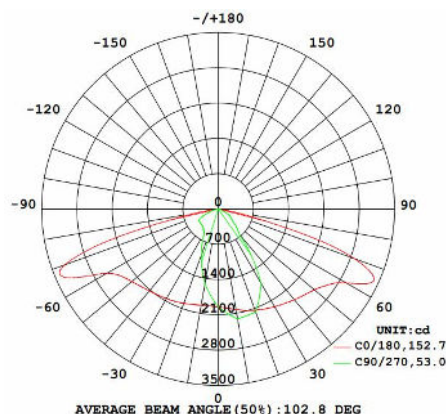
PRODUCT CODE	ARM-SOL-HYB-50WW	ARM-SOL-HYB-50NW
BATTERY	18650 lithium battery 12V 50 Ah	
BEAM ANGLE	150x70°	150x70°
POLE DIAMETER	60mm	60mm
LIGHT OUTPUT	50W	50W
LUMINOUS FLUX (lm)	6000	6700
CHIP BRAND	LUXEON 5050	
SOLAR PANEL	45W /18V monocrystalline silicon	
CRI	>80	
COLOUR TEMPERATURE	2700-3200K	4000-4500K
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:

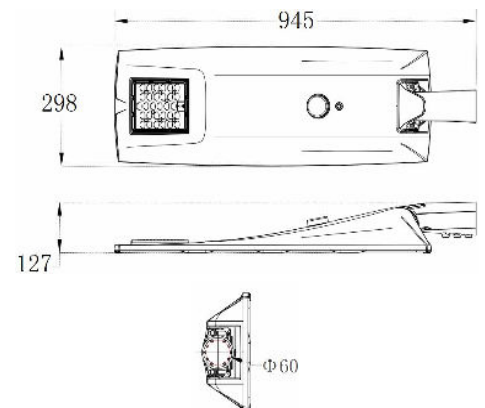
Suitable for:

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

## DISTRIBUTION CURVE:



## DRAWINGS:



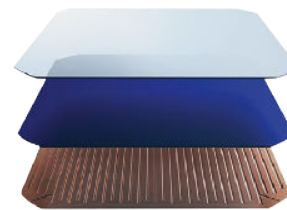
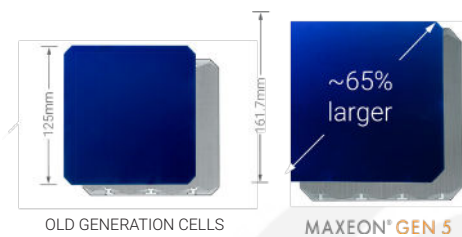
MADE USING

SUNPOWER®  
MAXEON® GEN 5

MOST POWERFUL AND DURABLE  
SOLAR CELLS



## HIGH EFFICIENCY SOLAR CELL:



### Highest Power Cell

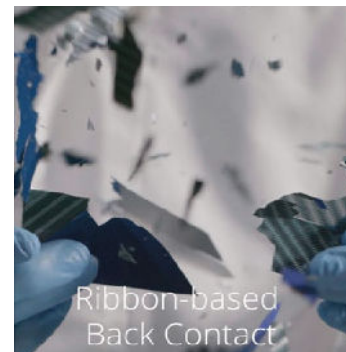
SunPower's new Maxeon® Gen 5 cell is 65% larger than prior generations, delivering the most powerful cell and highest efficiency panel in commercial solar.

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

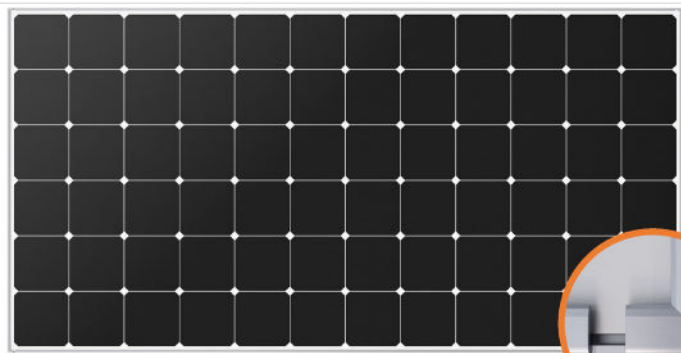
### Maxeon® Technology

- 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.

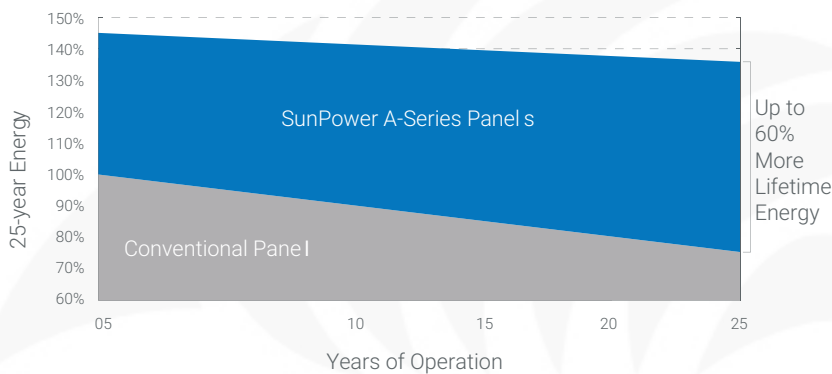


**Reduced Soiling**

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.



## 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/m<sup>2</sup> back

Snow: 187 psf, 9000 Pa, 917 kg/m<sup>2</sup> front

**Design Load:**

Wind: 75 psf, 3600 Pa, 367 kg/m<sup>2</sup> back

Snow: 125 psf, 6000 Pa, 611 kg/m<sup>2</sup> front

**Frame:**

Class 2 silver anodized