

# SONO Series

## The SOLAR NOVA™

Solar Powered LED Area Lighting



5935 West 84th St. | Indianapolis, IN 46278 | 1-888-391-4822 | www.SolasRay.com

Cat. #	Type
Notes	

### CERTIFICATIONS / RATINGS



### KEY FEATURES AND BENEFITS

- Convenient LED light, solar panel, and battery integrated into a single unit.
- Up to 12,000 lumens, 30 and 60 watt versions available.
- Highly efficient 200 lm/W (@ 4000K).
- Selectable Color Temperature.
- High conversion efficiency mono-crystalline photovoltaic solar panel.
- Long life and high temperature resistance LiFePO4 battery.
- 7.5 hour charge can power light 3 to 4 days in intelligent control mode with factory settings, or 6 to 7 hours at full power.
- Optional remote control available for intelligent control reprogramming.
- Built in microwave motion sensor.
- Flip-top design allows easy access to battery compartment.
- Hybrid dual-powered option available - AC power takes over if battery is low.
- Highly efficient MPPT type charge converter.



### SPECIFICATIONS

<b>Wattage</b>	30W / 60W
<b>Color Temp</b>	3000 / 4000 / 5000 Kelvin (Selectable)
<b>Housing</b>	Aluminum Alloy
<b>Color</b>	Silver Gray (RAL 870-3)
<b>Lens</b>	Polycarbonate
<b>Lifetime</b>	102,000 hrs L70
<b>Distribution Pattern</b>	Type II (Std) / Type III / Type V
<b>CRI</b>	Ra70
<b>Working Mode</b>	Intelligent control
<b>Control</b>	Timer dimming / microwave sensor
<b>Ambient Temperature</b>	0°C (32°F) to 50°C (122°F) recommended, for colder temps - see Application Guide
<b>Warranty</b>	3 Year Limited Warranty

#### LUMENS (4000K)

Model	30W	60W
Lumens	6,000	12,000

#### BATTERY (Built-In - non hybrid models)

With their high temperature resistance, large current discharge and long life cycle rating, LiFePO4 batteries are preferable for use in solar powered lights.

<b>Type</b>	LiFePO4 (Lithium Iron Phosphate)
<b>Run Time</b>	Up to 4 days (intelligent control) on full charge Up to 7 hours at 100% brightness
<b>Life Cycle</b>	>2,000 cycles (D.OD. 80%)
<b>Capacity</b>	<b>30W:</b> 18Ah / 230.4Wh   <b>60W:</b> 36Ah / 460.8Wh
<b>Charge Time</b>	7.5 hours

#### SOLAR PANEL (Built-In)

Mono-crystalline is the preferred type of panel for solar powered lights due to their superior efficiency and lifespan. Features a 21% conversion rate, which is 30% higher compared to traditional solar panels.

<b>Type</b>	High efficiency mono-crystalline
<b>Charge Controller</b>	MPPT (Maximum Power Point Tracking - DC to DC converter that finds the exact voltage/current where panel produces max power)

### PRODUCT ORDERING SELECTION





<b>SONO</b>		<b>345S</b>			<b>SP60</b>	
<b>Series</b>	<b>Watts</b>	<b>Kelvin (Selectable)</b>	<b>Distribution Pattern</b>	<b>Color</b>	<b>Mounting Options</b>	<b>Other Options</b>
<input checked="" type="checkbox"/> SONO	<input type="checkbox"/> 030 - 30W <input type="checkbox"/> 060 - 60W	<input checked="" type="checkbox"/> 345S - 3K/4K/5K	<input type="checkbox"/> T2 - Type II (Std) <input type="checkbox"/> T3 - Type III <input type="checkbox"/> T5 - Type V	<input type="checkbox"/> GR - Gray (Std) <input type="checkbox"/> BR - Bronze* *Consult Factory	<input checked="" type="checkbox"/> SP60 - 60mm Slip-Fitter (Included), (fits 2-3/8" tenon) for pole & side-entry mounting	<input type="checkbox"/> Mounting Adapters - See p2 <input type="checkbox"/> BS - Bird Spikes <input type="checkbox"/> HYB - Hybrid Dual-Powered <input type="checkbox"/> SONO-REM - Programming Remote

# SONO Series


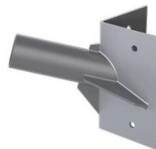


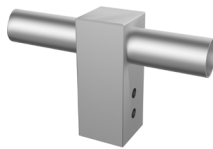
## The SOLAR NOVA™





### MOUNTING OPTIONS

#SP60 - 60mm Slip-Fitter (fits 2-3/8" tenon) for pole & side-entry mounting (Included)


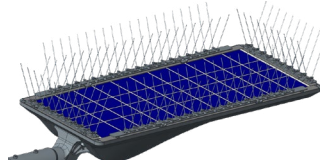
 30W	 60W	 Pole Top Configuration 60W - Adjusts 0° to +15° 30W - Adjusts 0° to +15°	 Side Entry Configuration 60W - Adjusts -10° to +15° 30W - Adjusts -7.5° to +7.5°
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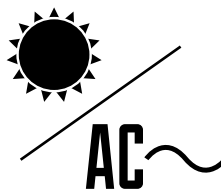

### MOUNTING ADAPTERS

#WM - Wall Mount Adapter	#CM - Corner Mount Adapter	#TP - T-Shape Pole Mount	#LS - L-Shape Square Pole	#TS - T-Shape Square Pole
		 Fits 2 3/8" tenon	 Fits 4" square pole	 Fits 4" square pole

#LP - L-Shape Pole Mount	#TA2 - Twin Adapter	#TA3 - Triple Adapter	#QA4 - Quad Adapter
 Fits 3 1/2" pole top or tenon	 Fits 3 1/2" pole top or tenon	 Fits 3 1/2" pole top or tenon	 Fits 3 1/2" pole top or tenon

### OTHER OPTIONS

#SONO-REM - Remote Control	#BS - Bird Spikes
<p><b>Remote Control</b> Required to change intelligent control from default settings.</p> <p><b>Must be ordered separately.</b> P/N: SONO-REM</p> 	<p>It is highly recommended leaving the fixture set to factory programming. If reprogramming, special attention must be paid to power vs battery run-time tradeoff. Run-time at 100% power is 7 hours max.</p> <p>Include 1 SONO-REM Remote Control</p>  <p>Prevents birds from landing or nesting on the solar panel.</p>

#HYB - Hybrid Dual-Power
<p><b>HYBRID</b></p>  <p><b>Never run out of battery power</b> When the battery storage is depleted (the battery voltage is lower than 9.6V), the Solar Nova™ will automatically switch to AC supplied power. When the solar power supply sufficiently recharges the battery, the system will automatically switch back to battery power.</p> <p><b>Specifications</b> Input Voltage: 100-277 VAC, 50/60 Hz Power Factor: &gt;0.94 at full load Surge Protection: 6kV line-earth / 4kV line-line</p> <p><b>Features</b></p> <ul style="list-style-type: none"> <li>• Constant current LED driver added</li> <li>• Hybrid controller</li> <li>• Battery: 12Ah for 30W / 30Ah for 60W</li> </ul> <p><b>Note:</b> Hybrid models require a different remote control than standard models.</p>  <p>Include 1 SONO-HYR Remote Control</p>

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## The SOLAR NOVA™

### APPLICATION GUIDE

#### TEMPERATURE ZONE MAP



Temperature affects battery performance reducing the total output of a fully charged battery as it gets colder. Recommended use of the Solar Nova™ for the above temperature zones are as follows:

**Zone 1** - Not recommended for use in this zone.

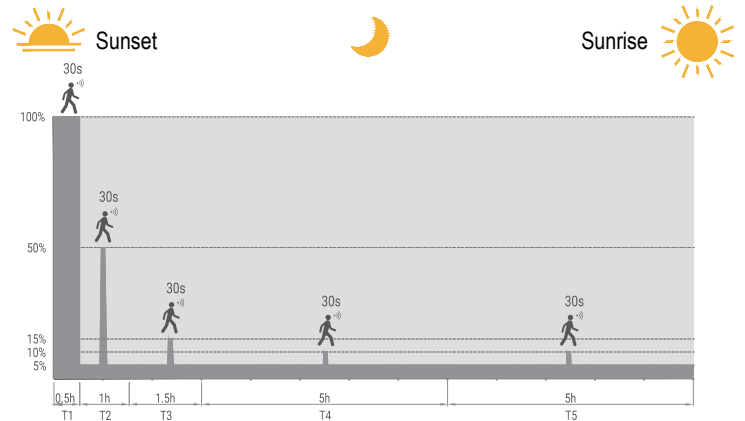
**Zone 2** - May be used in this zone. We recommend reducing intelligent control settings to 1/2 brightness of factory default settings.

**Zone 3** - Recommended for this zone.

### INTELLIGENT CONTROL MODE

Factory default settings of intelligent control mode. Total run time = 12.5 hours. Use optional remote to change settings (purchased separately).

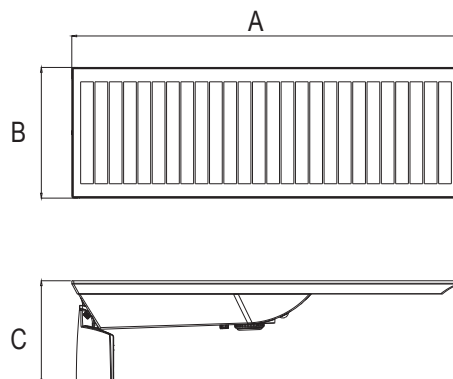
Time Period	T1	T2	T3	T4	T5
<b>Length</b>	1/2 hour	1 hour	1.5 hours	5 hours	5 hours
<b>Motion Not Detected</b>	100%	5%	5%	5%	5%
<b>Motion Detected</b>	100%	50%	15%	10%	10%
When motion is detected, light brightens for 30 seconds					



### WEIGHTS, EPA AND DIMENSIONS

#### DIMENSIONS

Dim	30w	60w
<b>A</b>	31.50"	39.17"
<b>B</b>	10.59"	14.61"
<b>C</b>	8.39"	10.20"



#### WEIGHTS / EPA

Model	30W	60W
<b>Weight</b>	17.6 lb	32.2 lb
<b>EPA</b>	2.32 ft²	3.98 ft²

#### BUG

Model	30W			60W		
Type	II	III	V	II	III	V
<b>B (Back)</b>	2	1	3	3	2	3
<b>U (Up)</b>	0	0	0	0	0	0
<b>G (Glare)</b>	1	1	2	2	2	2