

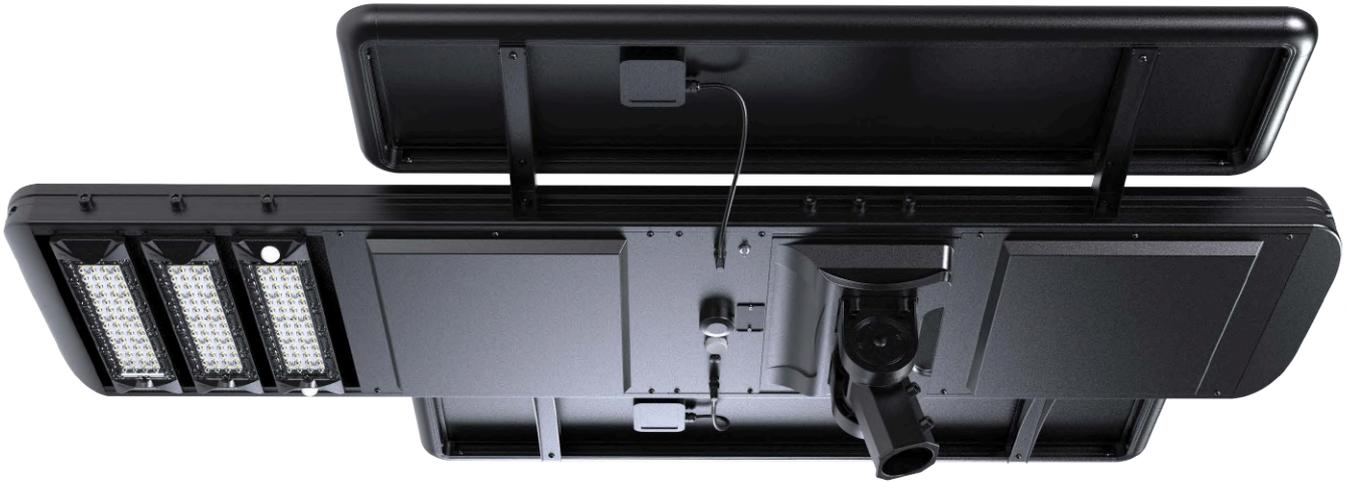
# STEALTH 120-23-EX

LED Solar Street Light



<https://www.solarlightingintl.com>





## Welcome

This vision is sustained through our unwavering commitment to delivering exceptional customer service and comprehensive after-sales support. Today, Solar Lighting International, Inc. stands as a global leader in the design and manufacture of commercial solar lighting products. With over two decades of experience, beginning with the innovative X-35 series solar streetlights, we have since expanded our product portfolio to include the Stealth all-in-one solar lights and a wide range of commercial solar products. These include solar-powered streetlights, parking lot lights, pathway walkway lights, and solar-powered traffic safety solutions. Solar Lighting International products are proudly designed and engineered in the United States, delivering quality and performance you can trust.

## Global Presence

Solar Lighting International partners with select installing contractors and distributors across the United States, the Bahamas, Puerto Rico, the Turks & Caicos, Trinidad & Tobago, Suriname, El Salvador, Ecuador, and Bahrain. Our international engineering and sales teams offer expertise in project planning, execution, and long-term technical support.

We take pride in our long-standing relationships with loyal and repeat customers. And we invite you to become part of the Solar Lighting International family.





## GHYU'H 'Gc`Uf' @ll \ h: YUhi fYg'UbX'6 YbYZlrs

- ◆ **Low Maintenance-** annual panel cleaning in most environments for reliable performance
- ◆ **Easy Programming:** User-friendly remote control for programming
- ◆ **Custom Optics:** Multiple lens options for light distribution
- ◆ **High-Efficiency** Mono-crystalline Solar Panels & MPPT Charge Controller
- ◆ **Long-lasting** Lithium Iron Phosphate LiFePO4 batteries
- ◆ **Adjustable** LED light bars up to 50° in both directions
- ◆ **Dual Motion Sensors:** Two Wide-angle motion sensors provide superior coverage over longer distances vs. a single PIR sensor.
- ◆ **IoT Ready** - Smart City control IoT remote management via 4G/5G for utility-scale projects
- ◆ **9LD5 BG-CB'D5 B9 @G-** ORDER USING P/N **STEALTH II ESP-120** ADDS 80 WATTS EXTRA CHARGING
- ◆ **AC Charging Port-** optional AC charger available

# Specifications



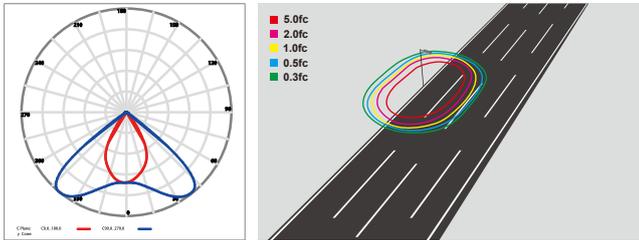
Product Model	STEALTH 120W-23-EX		STEALTH 120W-23-O-EX	
Power	120W		120W	
Lumen / LED Type	22,200 Lumens (Phillips 5050)		22,200 Lumens (Phillips 5050)	
Color Temperature	4000K / 5000K		4000K / 5000K	
BUG Rating	B1-U0-G2		B1-U0-G2	
Battery	LiFePO <sub>4</sub> 36AH,25.6V / 921.6Wh		LiFePO <sub>4</sub> 48AH,25.6V / 1228.8Wh	
Solar Panel	Mono-crystalline   200 Watt		Mono-crystalline   200 Watt	
Light Dimensions	65.6"×34.74"×11.77" 1666×882×299mm		65.6"×34.74"×11.77" 1666×882×299mm	
Working Time	Up to 14 Hrs if fully charged, Alternate working modes and working times, ranges from 3 - 6 nights.		Up to 16 Hrs if fully charged, Alternate working modes and working times, ranges from 3 - 6 nights.	
Charging Time	Requires 6 hours of direct sunlight at optimal angle. Optimal direction is magnetic south and the optimal angle equals the latitude of the installation. Performance is reduced if product is installed different than the optimal angle or non-South facing.			
Beam Angle	Standard Distribution :150 x 75°- Type III or Bat-Wing Style   Optional Lens Distribution for Type I, Type II & Type V*			
PIR Sensor	2 PIR Sensors   Detection angle: 150°   Detection distance: up to 15 Meters / 50 Feet			
IP Class	IP66			
Working Temp	-20°F - 140°F / -23C° - 60C°			
Housing Material	Powder Coated Aluminum   Salt Spray Coating			
Weight N.W./G.W.	71 lbs.   84 lbs. 32 kg   38 kg (Fixture)	22 lbs.   29 lbs. 10 kg   13 kg (Extended Panel)	86 lbs.   102 lbs. 39 kg   47 kg (Fixture)	22 lbs.   29 lbs. 10 kg   13 kg (Extended Panel)
Box Dimensions	75.4"× 19.5"×7.1" 1915×495×180mm (Fixture)	61"×13.8" ×7.9" 1550×350×200mm (Extended Panel)	75.4"× 19.5"×7.1" 1915×495×180mm (Fixture)	61"×13.8" ×7.9" 1550×350×200mm (Extended Panel)
Installation Height	20' - 30' or 6 - 9m		20' - 30' or 6 - 9m	
Installation Spacing	100' - 150' or 30 - 50m		100' - 150' or 30 - 50m	
EPA	8		8	
Warranty	3 years**			

\* Default lens is Type III, other options available. \*\* Prorated if not installed per optimal instructions.

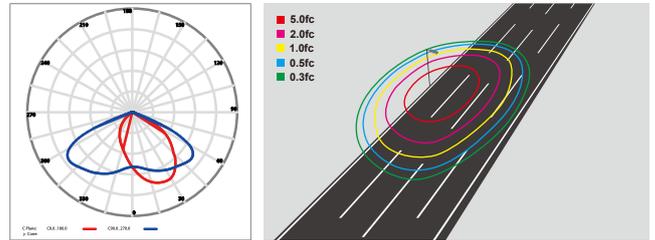


## Photometrics

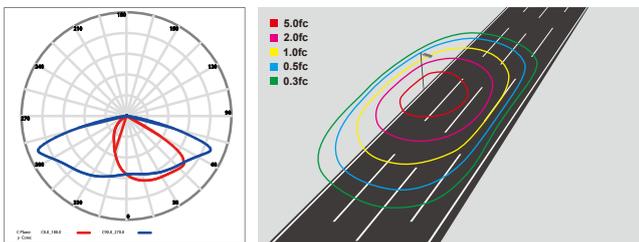
60×100° (TYPE I -VS)



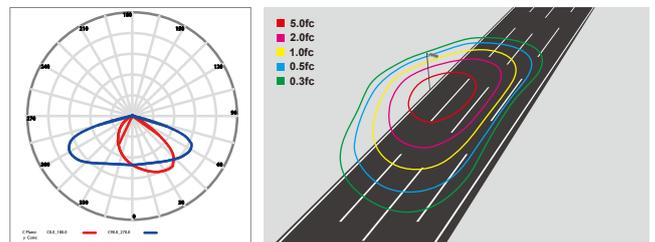
70×135° (TYPE II -S)



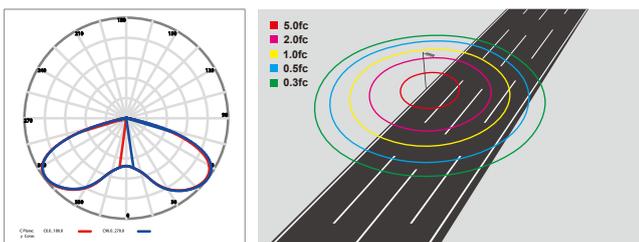
75×150° (TYPE III -M)



80×150° (TYPE III -S)



150° (TYPE VS)



- \* Type III default light distribution.
- \* All lens options available at additional cost, must specify at time of order.
- \* Fixture Mounting at 20Feet. Fixture tested at full power.

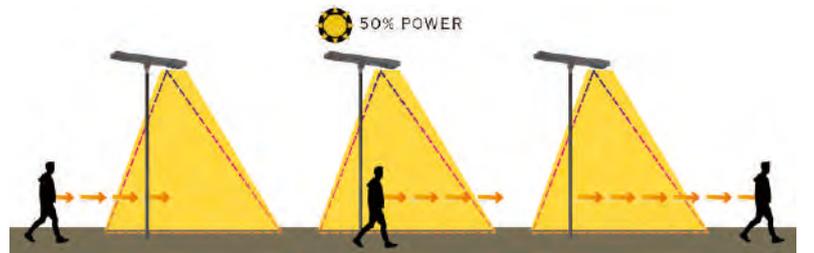


## Solar Controller

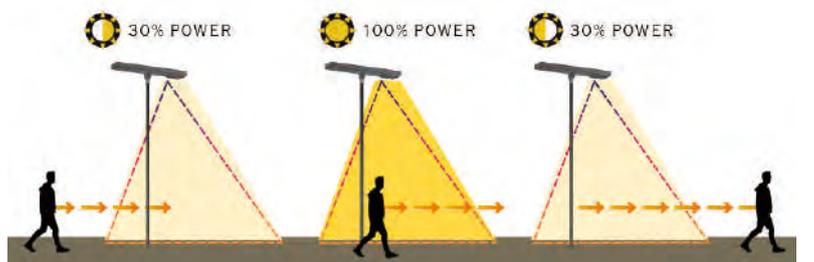


 **Power Button**

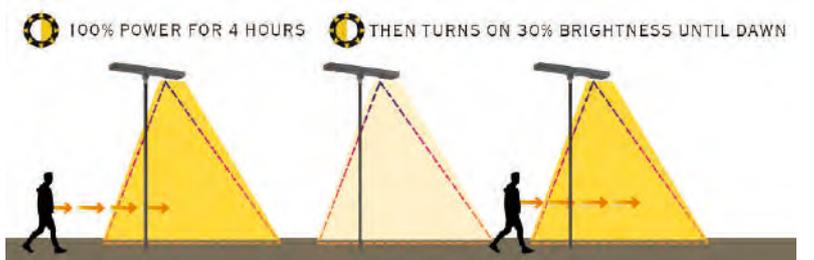
 **Constant Lighting Mode**  
Automatically operates at 50% brightness from dusk to dawn or until power is off.

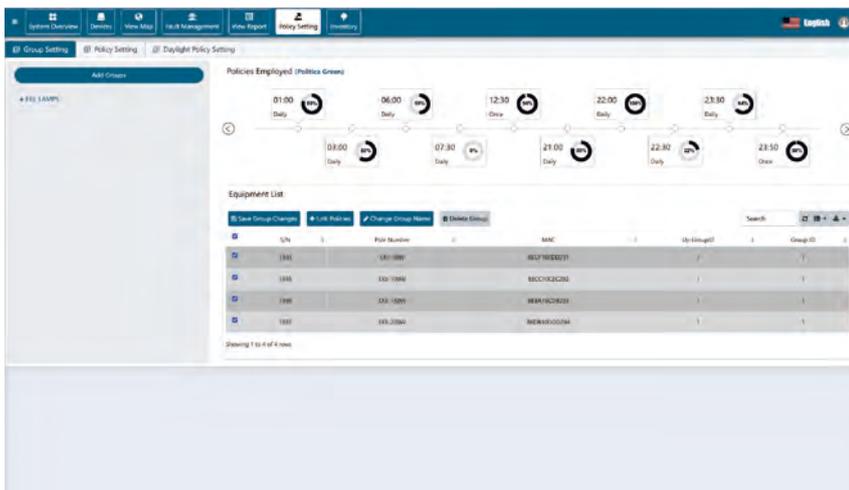
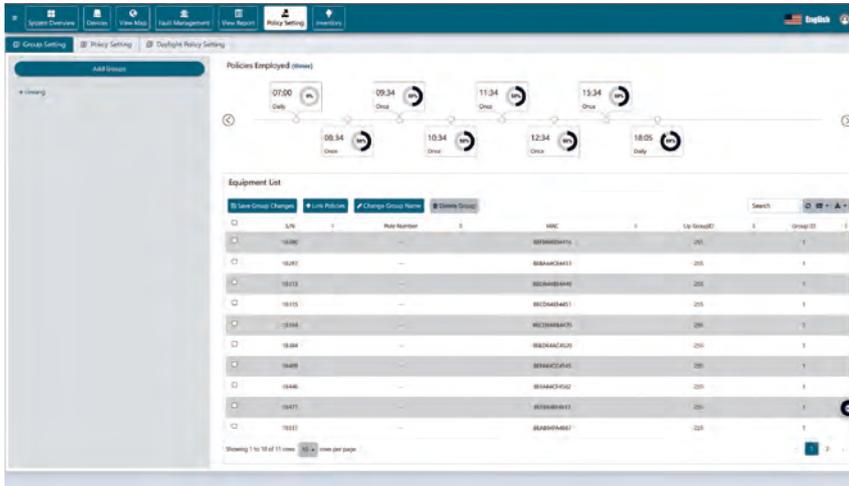


 **Sensor Mode**  
Automatically operates at 30% brightness. When motion is detected, light increases to 100% until no motion is detected for 30 seconds, then returns to 30% brightness. Detection up to 50 feet.



 **Customized Working Mode**  
Automatically turns on at dusk and remains at up to 100% brightness for 4 hours, then it automatically turns to 30% brightness until dawn.





## IoT Integrated MPPT Smart Controller and Software Platform

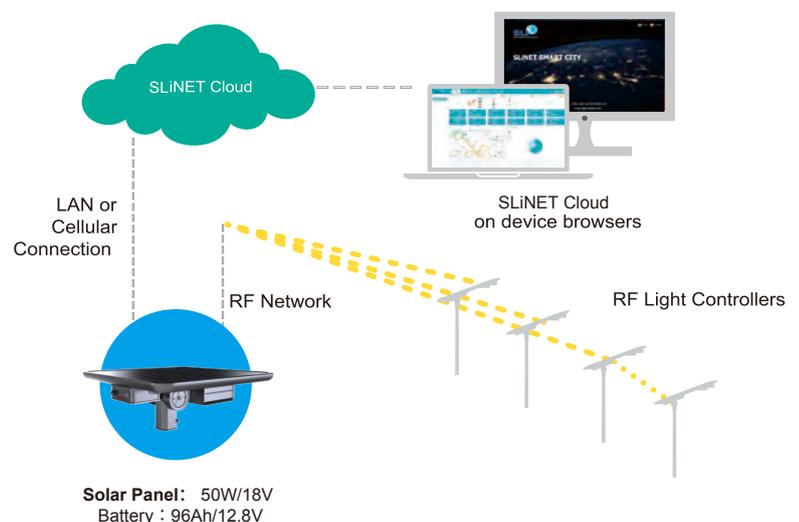
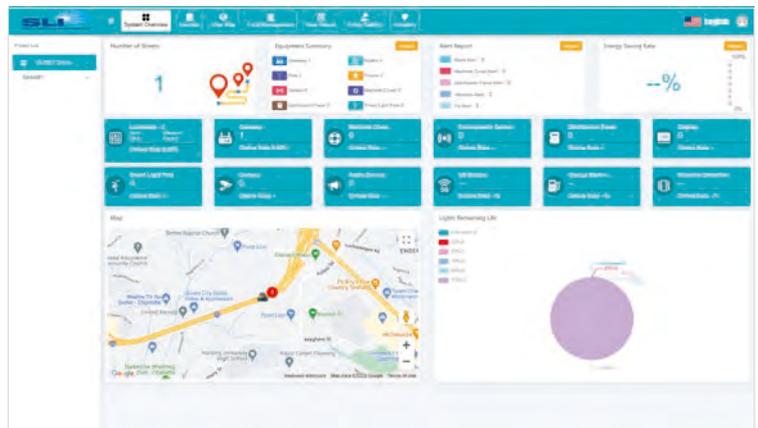
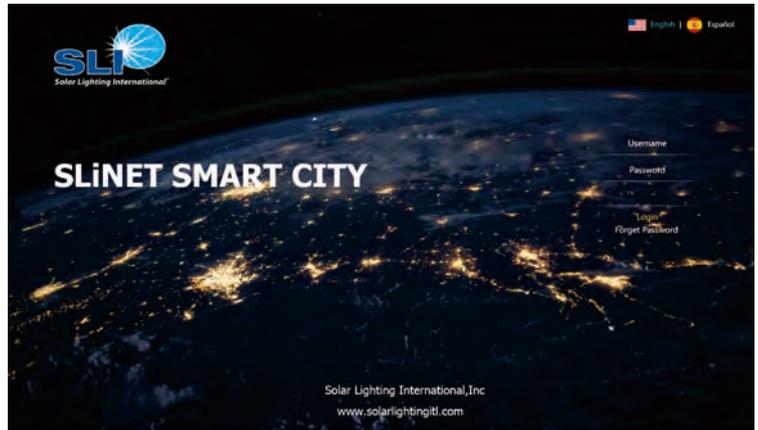
For clients requiring more advanced solutions, our Smart City technology IoT controller is a standard feature for Stealth solar lights. Our optional software platform and a 4g/5 G connection expand the standard features of our smart MPPT solar controller, to provide:

- Real-time monitoring of the light fixture, solar array, battery status, controller data, and light output
- Adaptive brightness control
- Scheduled operation
- Maintenance Alarm notifications by email
- Carbon Offset data Logging
- Compatible with existing smart city IoT software
- Allows for monitoring of existing Munciple AC LED light fixtures with our optional node

# SLiNET Smart Control System

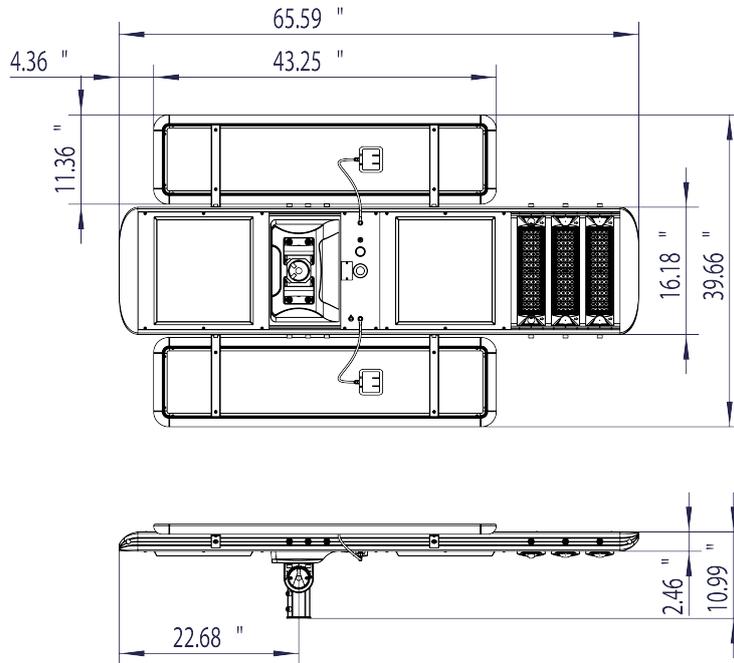
## Smart City

- Smart project control perfectly combines the solar street lighting fixture, Internet of things with wireless communication technology to achieve seamless monitoring and management of any project. Providing remote background data, real-time understanding of the working status of each system component (street lights, photovoltaic panels, batteries, and controllers). This allows you to know the system usage from the client terminal, possibly thousands of miles away, without leaving the office. The ability to manage the operation and maintenance of your lighting project is unparalleled.
- The solar street light management system can pre-set one or more lighting modes according to different times of day, adjust to traffic flow, automatically turn on or off any light, and adjust the switching time and illumination according to environmental requirements. This allows your project to achieve maximum energy savings. We can even integrate your current AC electrical lighting fixtures into our platforms for mixed-use control and monitoring.
- Solar Lighting International's IoT-integrated system is composed of a street light, 4G Gateway, a single light node controller, and our smart cloud platform. The centralized controller and the gateway controller transmit the data collected from each fixture via the wireless communication network and 4G. The centralized controller uploads data to a secure cloud platform through GPRS data flow, allowing data access for mobile phones and computer terminal access.



## Product Dimensions

120W



120W 80+40    MOQ 300

