

Slatercom
Dialight OEM Master Distributor

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Aviator™ Series Specifications

DC Alternative Powered Obstruction Lighting System



Solar Navigation Lighting System, Astoria-Megler Bridge
-Photo courtesy of Oregon Department of Transportation

The Value Proposition

- Fixtures use red, white, and/or infrared LEDs and are ETL certified to FAA 150/5345-43F; optics are a sharp beam cut-off design with little scatter
- Our pre-engineered systems save costly engineering, manufacturing time, and installation errors. All systems meet or exceed guidelines set forth in FAA Engineering Brief #76, "Using Solar Power for Airport Obstruction Lighting"
- Eliminates expensive utility power connections or visits to refuel conventional generators
- Rugged design withstands extreme environments, minimum LED life is 100,000 hours

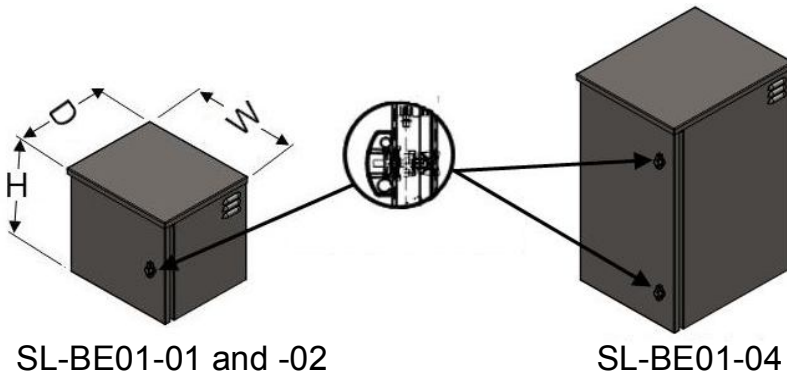
Offering

- Aviator Includes A0, A1, A2, and E1 custom systems
- All systems are complete kits and include all hardware and accessories
- Complimentary engineering analysis ensures proper sizing for power requirements and location
- Solar components can be mounted on the ground, pole, and/or on the structure
- High wind and marine compatible versions are available; our modified PV mounts can withstand 175mph wind (including gust factor)
- Securitized versions are available for enhanced vandal resistance
- Standard Operating Voltage: 12, 24 or 48 VDC
- 5 year limited warranty on lighting and solar controllers; 20 year limited warranty on the PV panels; 5 year prorated on the batteries



Aviator™ Series Product Features

Battery/Controller Enclosure



SL-BE01-01 and -02

SL-BE01-04

Slatercom Side of Pole Enclosure

SKU	# of Batteries	W	H	D	Weight
SL-BE01-01	One	16.2"	15.0"	13.7"	25.7 lb
SL-BE01-02	Two	16.2"	15.0"	19.7"	32.3 lb
SL-BE01-04	Four	16.2"	30.0"	19.7"	56.8 lb

Notes:

- 1) Steel enclosures are coated with zinc phosphate and powder coat SW ANSI-61 gray
- 2) Optional aluminum, stainless steel, and polycarbonate enclosures are available
- 3) Custom sizes and configurations are available
- 4) Enclosures sized to Group 30H Tall batteries

- One, two and four battery enclosure can be configured for inclusion of auxillary equipment, powder coated steel; optional stainless, aluminum or polycarbonate construction; custom designs
- Formed with heavy gauge material and edges are rolled, the door is lockable and is sealed with a neoprene gasket, hardware is galvanized or stainless steel
- Louvered door and enclosure for heat and gas dissipation with mesh to prevent infestation
- One to sixteen 6VDC and 12VDC sealed deep cycle batteries with 100 hour rate from 56 amp-hrs to 354 amp-hrs, AGM batteries are standard. Insulation for cool climates and cooling fans for hot climates are also available
- Uses one or more 10 to 40 Amp MPPT charge controller with multi-stage battery charging for optimum solar harvest and battery charging; optional PWM controller
- Charge controller has code compliant over-current protection, reverse current, high temperature and high voltage overload protection
- Charge controller, DIN rail and circuit protection using fuses or circuit breakers mounted on the inside of the door subplate for safe access

Obstruction Light Controller

- Slatercom UCS controller series are FAA compliant and are available with or without monitoring
- Comes with a controller mounted in the battery enclosure or mounted externally in a separate UV resistant polycarbonate, aluminum, or stainless steel enclosure
- Optional monitoring through conventional phone lines, IP, satellite, and cellular devices
- Photosensors are FAA compliant twist-lock style

Solar Modules, Mounts, and Wiring

- 10 to 280 watt, 12 and 24 VDC High efficiency PV modules, utilize heavy anodized aluminium frame monocrystalline and polycrystalline cells; Options include Copper indium gallium (di)selenide (CIGS) thin film PV panels, bird deterrents, and bullet resistant back shields.
- Side of pole mount attaches to 2 to 5 inch diameter poles; optional top of pole and ground mount kits are available
- Slatercom proprietary heavy-duty hot dipped galvanized light, solar panel, and enclosure mounts are available
- Includes UV resistant stranded wire, conduit, junction boxes and hardware
- Slatercom all weather power SO style cables are made with DC configuration conductor colors and are easy to install
- Other options include inverters, timers, digital read-outs, temperature probes, radio control, and more