

SunWize® Designer Lighting Systems (DLS)

SunWize® Designer Lighting Systems (DLS) use solar technology to provide lighting in areas where there is no utility power or where excavation for underground power lines make utility power too costly. The SunWize Designer Lighting Systems combine the latest technology available to provide years of reliable, low maintenance operation. The factory assembled electronic control panel and batteries are contained in a 'slim-line', outdoor enclosure and fully tested for simple, trouble free installation.

The SunWize Designer Lighting Systems feature an ultra high efficiency luminaire incorporating a computer-designed, polished specular reflector to maximize the lighting intensity and coverage area. SunWize Designer Lighting Systems are color coordinated in attractive powder coated architectural bronze including the optional pole and arm. The luminaire is available with either low pressure sodium (LPS) or fluorescent (FL) lamps. The LPS lamp is a monochromatic (yellow-orange) light source, delivering the highest possible lumens per watt. Compact fluorescent lamps provide slightly less lumens, but produce a white light (4100K), which appears brighter than low pressure sodium lamps and should be used in areas where color rendition is desired.



High density solar modules have a 20+ year warranty

Entire pole-mounted system is designed to withstand 90 MPH wind loads with 1.3 gust factor

Pole top mount adjusts 0-90° horizontal and 360° about pole

Corrosion resistant luminaire with captive screw, hinged cover and slip fits on 2" sch. 40 pipe/arm.



Hinged and gasketed door has keyed, locking mechanism

Vented, outdoor battery and control enclosure. Pole mounting brackets and enclosure are vandal-and corrosion resistant

Convenient wiring access

Battery Box Dimensions:	
Number of Batteries	Dimensions H x W x D
1	21" x 16" x 10"
2	32" x 16" x 10"
4	32" x 16" x 16"

Available DLS light fixtures:	
Fixture	Rated Lumens
35 W LPS	4800
55 W LPS	8000
36 W Fluorescent	2900
72 W Fluorescent	5800

APPLICATIONS

- Residential roadways and intersections
- School ground security lighting
- Marinas and campgrounds
- Parks and recreation areas
- Community area lighting • Parking lots
- Bicycle and jogging paths

FEATURES AND BENEFITS

- Eliminates utility line extensions
- Fast and easy installation
- Location flexibility
- Automatic lighting controller with adjustable run times
- Maintenance free, long life batteries
- Over-current protection and status LEDs



Specifications and ordering information

Complete lighting systems include: • Luminaire • Solar array • Top pole mount • Electrical control panel • Sealed batteries and enclosure • All wiring • Standard systems do not include pole and arm – choose from options.

Options: (ordered separately)

DLS-A – Pre-assembled PV array, top pole mount & wiring

DLS-B – Protective aluminum module back plates

DLS-C* – 6” sq. x 30’ pole (reduces wind load to 80 mph)

w/48” arm & 4-1” x 36” anchor bolts

(Options C, D, E and G include pole base cover, enclosure U-bolts, cable fittings and hardware)

DLS-D* – 6” sq. x 20’ pole w/48” arm & 4-1” x 36” anchor bolts

DLS-E* – 5” sq. x 20’ pole w/48” arm & 4-1” x 36” anchor bolts

DLS-F – Lightning Surge Protection and ground rod

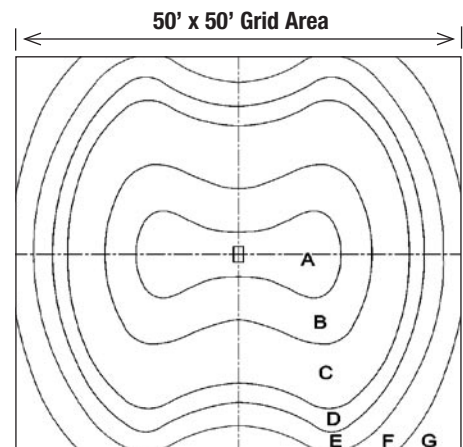
DLS-G* – 4” sq. x 20’ pole w/48” arm & 4-1” x 36” anchor bolts

SunWize DLS Selection and Operation Guide										
*Model Number	Geographical Location – Worst Month Average Sun Hours – Solar Array at Tilt								Battery Qty.	Sq.Pole Size *
	2.0-2.5		3.0-3.5		4.0-4.5		5.0-5.5			
Low Pres Sodium	Runtime	Reserve	Runtime	Reserve	Runtime	Reserve	Runtime	Reserve		
DLS-115-115-35	4 hrs	7 days	6 hrs	5 days	8 hrs	4 days	10 hrs	3 days	1	5”
DLS-180-200-35	6 hrs	9 days	8 hrs	7 days	10 hrs	5 days	D/Dawn	3 days	2	5”
DLS-240-230-35	8 hrs	7 days	10 hrs	6 days	D/Dawn	4 days			2	5”
DLS-300-340-35	10 hrs	9 days	D/Dawn	6 days					4	6”
DLS-460-460-35	D/Dawn	7 days							4	6”
DLS-100 -85 -55					4 hrs	5 days	6 hrs	4 days	2	5”
DLS-120-100-55			4 hrs	9 days	6 hrs	6 days	8 hrs	5 days	2	5”
DLS-180-100-55	4 hrs	9 days	6 hrs	6 days	8 hrs	5 days	10 hrs	4 days	2	5”
DLS-240-115-55	6 hrs	7 days	8 hrs	6 days	10 hrs	5 days	D/Dawn	3 days	2	5”
DLS-340-170-55	8 hrs	7 days	10 hrs	6 days	D/Dawn	5 days			4	6”
DLS-400-200-55	10 hrs	7 days	D/Dawn	6 days					4	6”
Fluorescent										
DLS -50 -85 -36					4 hrs	7 days	6 hrs	5 days	1	4”
DLS -60 -100-36			4 hrs	8 days	6 hrs	6 days	8 hrs	4 days	1	4”
DLS -90 -100-36	4 hrs	9 days	6 hrs	6 days	8 hrs	4 days	10 hrs	3 days	1	5”
DLS-120-115-36	6 hrs	7 days	8 hrs	6 days	10 hrs	4 days	D/Dawn	3 days	1	5”
DLS-170-170-36	8 hrs	7 days	10 hrs	6 days	D/Dawn	4 days			2	5”
DLS-200-200-36	10 hrs	7 days	D/Dawn	6 days					2	5”
DLS-345-340-36	D/Dawn	7 days							4	6”
DLS-100-115-72					4 hrs	5 days	6 hrs	4 days	1	5”
DLS-120-200-72			4 hrs	9 days	6 hrs	6 days	8 hrs	5 days	2	5”
DLS-180-200-72	4 hrs	9 days	6 hrs	6 days	8 hrs	5 days	10 hrs	4 days	2	5”
DLS-240-230-72	6 hrs	7 days	8 hrs	6 days	10 hrs	5 days	D/Dawn	3 days	2	5”
DLS-345-340-72	8 hrs	7 days	10 hrs	6 days	D/Dawn	5 days			4	6”
DLS-400-200-72	10 hrs	7 days	D/Dawn	6 days					4	6”

* DLS model numbers depict PV watts - Battery Ah - Lamp watts. (example: DLS-90-100-36)

Select Lamp Watts and Run Time-Hrs desired vs worst month sun hours in your location. Use the map on page XX to select the insolation zone that corresponds to the site location. The table above illustrates standard systems. For competitive bids or other system combinations not listed, professional computer aided lighting system design services are free of charge. Contact your salesperson to determine the most cost effective solution for your location.

Horizontal Foot Candles @20 foot Mounting Height				
CONTOUR	FIXTURE TYPE			
	35W LPS	55W LPS	36W FL	72W FL
A	4.0	8.0	1.5	3.3
B	3.0	6.0	1.1	2.5
C	2.0	3.0	.75	1.5
D	1.2	1.8	0.5	1.0
E	0.5	1.0	0.3	0.6
F	.25	0.7	.15	0.3
G	.15	0.5	.10	0.2



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