



## SunWize® Designer Lighting Systems

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 with replaceable lamps feature an ultra-high efficiency luminaire incorporating a computer-generated, polished reflector to maximize the lighting intensity and coverage area.

SunWize Designer Lighting Systems are color coordinated in attractive powder coated “architectural bronze” paint, including the optional pole and arm. DLS systems come with either Low Pressure Sodium (LPS) 35 watt or 55 watt fixtures, LED 36 watt fixture or fluorescent 55 watt fixture.

The LPS lamp is a monochromatic (yellow-orange) light source, preferred for unobtrusive lighting. LEDs are 6500K color temperature producing bright white light and are not affected by temperature extremes. Compact fluorescent lamps are cool-white 4100K and should be used where temperature averages above 25°F degrees for best results, not recommended below 10°F.

Sealed, maintenance-free, deep-cycle batteries are designed to provide 7-8 year life based on average 15% daily depth of discharge. All DLS systems come with gel batteries, proven best for cold climate cyclic operation. Battery reserve # days are rated to 80% depth of discharge. Batteries have a limited 2-year warranty.

### APPLICATIONS

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

### 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

*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*



*High density solar modules have a 20+ year warranty*

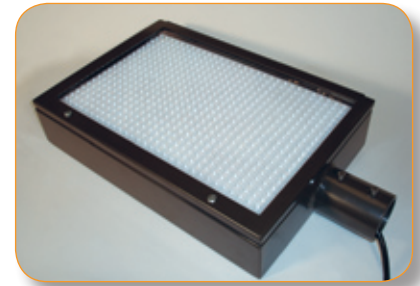
*Pole top mount adjusts 0–90° horizontal and 360° about pole*

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

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

DLS lighting systems include:

- Luminaire with 30' cable
  - Solar array
  - Top pole mount
  - Electrical lighting control panel
  - Sealed deep-cycle batteries
  - Enclosure & mounting brackets
  - All wiring & fuse protection
- Standard systems do not include pole or fixture arm – choose from options ordered separately.



36W LED

Part #	Description
999DLS-D	6" sq. x 20' pole 3" Tenon, 48" fixture arm
999DLS-E	5" sq. x 20' pole 2" Tenon, 48" fixture arm
999DLS-F	Lightning Surge Protection and 8' ground rod
999DLS-G	5" sq. x 20' pole 2.5" Tenon, 48" fixture arm

Pole options include pole base cover, enclosure square U-bolts, cable fittings, St-St hardware, hand hole, 4 anchor bolts + template. FOB to destination, continental US only.

## SunWize DLS Selection and Operation Guide

DLS Part No.	Insolation Map Geographical Location - Sun Hours Worst Month Average - PV Array at Tilt								Battery Qty.	Pole Option
	2 - 2.5 sun hours		3 - 3.5 sun hours		4 - 4.5 sun hours		5+ sun hours			
LPS 35W & 55W	Hrs/night	Batt # days	Hrs/night	Batt # days	Hrs/night	Batt # days	Hrs/night	Batt # days		
DLS-120-115-35	4	7	6	5	8	4	10	3	1	E
DLS-160-200-35	6	9	8	7	10	5	D/D	4	2	G
DLS-240-230-35	8	7	10	6	D/D	4			2	G
DLS-330-400-35	10	7	D/D	6					4	D
DLS-450-230-35	D/D	8							4	D
DLS-110-100-55					4	9	6	6	2	E
DLS-120-100-55			4	9	6	6	8	5	2	G
DLS-160-100-55	4	9	6	6	8	5	10	4	2	G
DLS-240-115-55	6	7	8	6	10	5	D/D	3	2	G
DLS-320-170-55	8	7	10	6	D/D	5			4	D
DLS-440-230-55	10	8	D/D	6					4	D
<b>LED Fixture-36W</b>										
DLS-120-115-600	4	7	6	5	8	4	10	3	1	E
DLS-160-200-600	6	9	8	7	10	5	D/D	4	1	G
DLS-240-230-600	8	7	10	6	D/D	4			1	G
DLS-330-400-600	10	7	D/D	6					1	D
DLS-450-230-600	D/D	8							2	D
<b>Fluor. Fixture-55W</b>										
DLS-100-100-55F					4	5	6	4	1	E
DLS-120-200-55F			4	9	6	6	8	5	2	E
DLS-200-230-55F	4	9	6	7	8	5	10	4	2	G
DLS-240-230-55F	6	7	8	6	10	5	D/D	3	2	G
DLS-320-340-55F	8	7	10	6	D/D	5			4	D
DLS-440-230-55F	10	8	D/D	6					4	D

Horizontal Foot Candles @ 20 foot Mounting Height				
Distance From Pole	FIXTURE TYPE			
	35W LPS	55W LPS	36W LED	55W FL
0	1.8fc	4.6fc	6.0fc	3.3fc
5ft	1.6fc	4.0fc	4.0fc	2.5fc
10ft	1.1fc	3.0fc	1.0fc	1.5fc
15ft	0.7fc	2.0fc	0.3fc	1.0fc
20ft	0.4fc	1.0fc	0.2fc	0.6fc
25ft	0.2fc	0.5fc	0.15fc	0.3fc

Controls and Battery Enclosure 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

Table based on single DLS light fixture. Poles spaced at 50 feet.