

OFF-GRID SOLAR-POWERED LIGHTS



GLOBAL

DACC Global's state-of-the-art, off-grid solar-powered lighting system utilizes industry-leading technology and is designed to provide lighting where the system is autonomous to the electrical grid. It comes complete with all necessary equipment for easy transportation and quick assembly. This allows installation virtually anywhere there is adequate sunlight. With minimal maintenance, each system is capable of providing continuous illumination during the evening hours. Multiple options for pole length and lighting technology allows you to custom tailor a system to a specific application.

THIN-FILM SOLAR PANELS

DACC Global's thin-film technology has revolutionized the solar light pole industry. Having the panels integrated into the pole allows for a streamlined and visually pleasing experience.

Efficiency

- ✓ 14% efficient
- ✓ Highest efficiency of all thin film technology
- ✓ Anti-glare coating increases panel efficiency

Economics

- ✓ Eliminates requirement for electricity from the grid
 - ✓ Not affected by fluctuations in energy prices
- ✓ Eliminates trenching expenses for power line connectivity

Security

- ✓ Reduced risk of solar panel theft or vandalism

Built to last

- ✓ Film laminated
 - ✓ Provides protection against the elements
 - ✓ Water/Rain
 - ✓ Dust/Rocks
 - ✓ Cracking/Chips/Scratches
 - ✓ Normal wear and tear
- ✓ Impact resistant to 1" hail at over 50 mph
- ✓ Shatterproof
- ✓ Provides over 80% output at 25 years

BATTERIES

The batteries feature the latest in LiFePO₄ (Lithium Iron-Phosphate) battery technology, delivering the longest life and greatest reliability in the industry - perfectly suited for an off-grid solution. Additionally, the batteries and electronic components are integrated into the pole where they are cooled by a patented process that ensures maximum performance and long system life.

Autonomy

- ✓ Provides power for up to 9 days without direct sunlight
- ✓ Allows for up to 5,000 full-charge cycles

Built to last

- ✓ Integrated cooling system in the pole
- ✓ Insulated polypropylene enclosure to maximize life
- ✓ Wide operating temperature range: -40°F to 160°F

Security

- ✓ Reduced risk of battery theft or vandalism

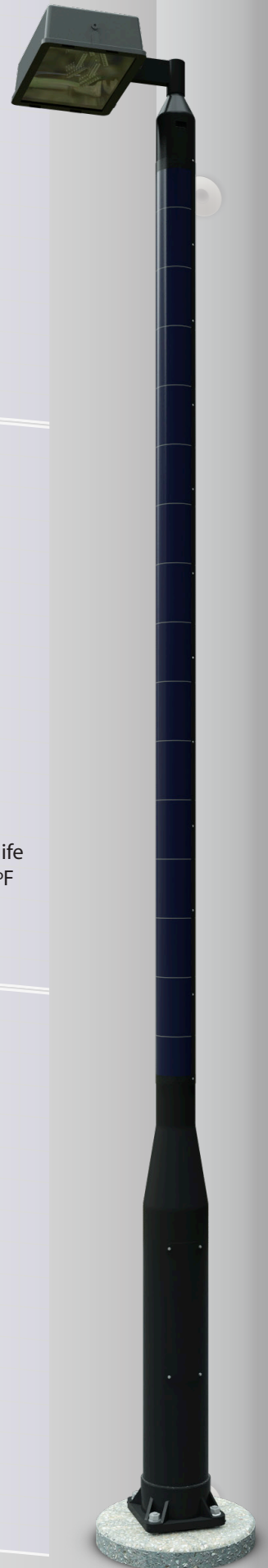
LUMINAIRES

With light being the most critical component of the fixture you are offered two solutions: Light Emitting Diode (LED) or Ultra Constant Discharge (UCD), both of which provide high quality light and are ultra-efficient, allowing for minimal energy use.

	LED	UCD
System Watts	39	46
Lumens	2,880	4,525
Lumens/Watt	73	98
Color Rendering Index	>69	>80
Color Temperature	3950K to 4500K	4300K

AESTHETICS

Existing off-grid solar light poles use a rigid glass solar panel and a battery box attached to the pole, in what often appears to be an afterthought. This method is not only unsightly but is also an easy target for theft. With DACC Global's solution, the solar panels and batteries are integrated into the pole, which is visually pleasing and resembles a traditional light pole.





General

System Autonomy
Energy Saving Mode

Warranty

15' & 25' Poles

4 to 9 days depending on location
Automatic control determines triggering based on remaining battery charge
5 year limited warranty

Pole

15' Pole

25' Pole

Total Dimensions 15'H x 12" diameter 25'H x 10" dual diameter
Material Powder coated aluminum pole to protect from rust and weathering
Mounting Options Base mount or direct burial available
Features Secure service access panel
Wind Loadings 170 mph rating at 3 second bursts

Solar Collector

15' Pole

25' Pole

Dimensions 9.34'H x 15.5"W (two panels per pole) 18'H x 15.5"W (one panel per pole)
Orientation Sun-facing wrapped 300° around pole body Sun-facing wrapped 225° around pole body
Wind Loading No additional loading
Operation Voltage ~28V - 33+V Pmax ~ 134W ~28V - 33+V Pmax ~ 144W
Features Shade tolerant, damage tolerant, contaminant resistant
Pole Attachment Adhesive backed solar collector with supporting steel rivets
Life 80% power at 25 years life

Luminaire

LED (15' & 25' Poles)

UCD* (15' & 25' Poles)

Luminaire Input Voltage 24V 120V - 277V
Power Consumption (W) 39 46
Lumens (lm) 2,880 4,525
Suggested Replacement For 100W HID Lighting 150W HID Lighting
CRI ≥69 >80
System Efficacy (lm/W) >73 >98
Color Temperature 3950K - 4500K 4300K
Lighting Type Solid State LED Xenon (Ultra Constant Discharge)
Life (hours) >60,000 30,000
IES Lighting Type Type I, II, III and V available
Mounting Arm 4' or 18" available
Testing Labs UL Listed

Battery Charging Controller

15' & 25' Poles

Charging Technology Maximum Power Point Transfer
Peak Efficiency 0.97
Self Consumption ~35mA
Data Logging 30 days
Electronic Protection Multiple
Supported Temp Range -40°F (-40°C) to 160°F (71°C)

Batteries

15' & 25' Poles

Voltage 24V
Capacity 90Ah at 24V
Material Lithium Iron-Phosphate
Features Contained in insulated polypropylene enclosures for added protection

Protection from Elements and Intrusion

15' & 25' Poles

Wiring Marine-grade wiring
Control System UL Recognized, Conformal coating used to create water tight seal

*For UCD warranty information please go to www.daccglobal.com

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In accordance with our policy to consistently improve our products, the specifications contained herein are subject to change without notice.