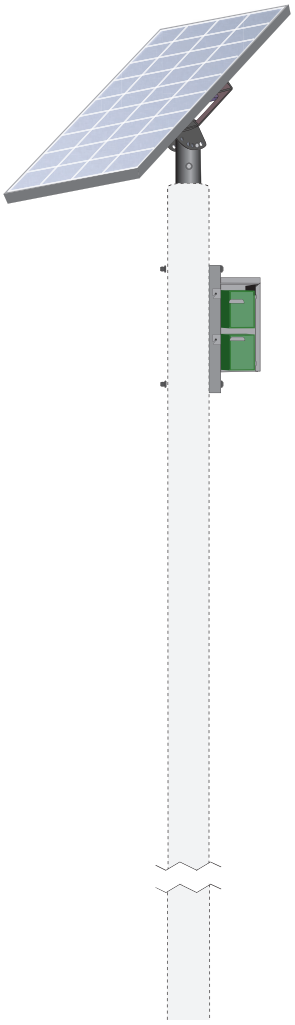
Top of Pole Series
Solar Powered LED Lighting System

OVERVIEW

The Top of Pole Series features an adjustable mounting bracket and includes a variety of option choices to create a customized outdoor solar light solution for your application. The system is configured according to your location and lighting requirements to run throughout the night or to save energy with dimming when full light is not required. The battery enclosure and solar module mounts to a variety of pole types; pole sold separately.



WHY SOLAR?

REMOTE LOCATIONS
- Where grid is difficult to access
- Sensitive environments

IMMEDIATE ENERGY SAVINGS
- No energy costs throughout life of product

LOWER INSTALLATION COSTS
- No trenching or cabling
- Shorter installation time compared to on grid systems

GREEN STATEMENT
- Viable and sustainable energy alternative
- Recyclable battery and components

OUR DIFFERENCE

INDUSTRY-LEADING EXPERTISE
- World leader in solar LED lighting solutions, since 1990
- Publicly traded on the TSX (CMH)
- Extensive experience in outdoor lighting industry

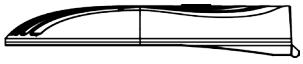
ADVANCED LIGHTING TECHNOLOGY
- Designed for lighting applications
- Dimming and operating profiles for adaptive lighting
- Superior LED luminaires

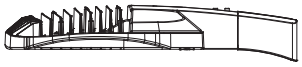
CUSTOM SOLUTION FOR YOUR APPLICATION
- Precision-engineered for your application
- Array of solar engines available for your portfolio
- Aesthetic-design and value-built engine options

LUMINAIRES


Cree XSPR™ LED Street/Area Light


Cree XSP1™ LED Street/Area Light


Cree XSP2™ LED Street/Area Light


Cree OSQ™ LED Street/Area Light


Cree EDGE™ LED Street/Area Light

Decorative Luminaire Series available. See Decorative Datasheets for more info.

REPRESENTED IN YOUR REGION BY:

Sol® by carmanah®

Top of Pole Series
Solar Powered LED Lighting System

TECHNICAL SPECIFICATIONS

SOLAR PANEL	PV DIMENSIONS (Length x Width x Height)	*EPA @ 45 DEGREES (Luminaire and arm additional)	SYSTEM WEIGHT (Luminaire and arm additional)	POLE TENON
Single	59.1 x 26.3 x 1.81 in 1501 x 668 x 46 mm	12.07 ft² 1.12 m²	210 lbs 95.25 kg	3.5" O.D 8.89 cm O.D.
Double	59.1 x 52.6 x 1.81 in 1501 x 1336 x 46 mm	20.5 ft² 1.90 m²	245 lbs 111.13 kg	3.5" O.D 8.89 cm O.D.
Triple	59.1 x 78.9 x 1.81 in 1501 x 2004 x 46 mm	28.5 ft² 2.65 m²	435 lbs 197.31 kg	3.5" O.D 8.89 cm O.D.

* System weight and EPA may vary with number of luminaires and batteries. The chart above is for reference only. Sol provides a calculated EPA and weight when a system is quoted and submitted.

SYSTEM DATA	
System Colors	Aluminum/Silver (natural finish), Bronze or Black
Material	Grade "A" corrosion resistant aluminum for battery enclosure and solar panel frame
Security	Security bolts used to fasten cover. Battery box mounted at top of pole to reduce vandalism and theft opportunities.
Options	Panel Pan for certain combinations
Warranty	5 year system warranty, additional pass-through of existing warranties, batteries pro-rated
BATTERY	
Type	Maintenance-free, lead acid gel cell battery; spill-proof, leak-proof
Rating	1800 cycles to 20% Depth of Discharge at 20°C (68°F)
Luminaire	
Compatiable Luminaires	Cree XSP Series™, Edge™, OSQ™ LED Street/Area Luminaires and decorative options available
IES Light Distributions	Type 2 Long, 3 Med, 4 Med, 5 Med
Color Temperature Options	4000K; 5700K
Color Rendering Index (CRI)	Minimum 70CRI
Mounting	Mounting hardware provided
CONTROLLER	
Type	EternO 4® integrated solar charge controller and LED driver
Optional Operating Profiles	Dusk to Dawn and dimming profiles available
Day/Night Transition	Via solar panels
CERTIFICATIONS	
Battery	Built to comply with IES 896-2, DIN 43534, BS 6290 Pt4, Eurobat; UL Recognized
Luminaire	cULus Listed
	Certified to ANSI C136.31-2001 3G Bridge and Overpass Vibration Standards
	Meets CALTrans 611 Vibration testing
	Meets Buy American requirements within ARRA
	Suitable for wet locations
	Luminaire and finish endurance tested to withstand 5000 hrs of elevated ambient salt fog conditions as defined in ASTM Standard B 117
Controller	TUV listed to UL 60950-1:2007
	CSA C22.2.60950-1:2007

*(Effective Projected Area) at 0° Power Unit + Arm + Battery Box + Luminaire

EternO® 4 ENERGY MANAGEMENT SYSTEM

The EternO® 4 ensures bright, reliable light output and healthy, high-functioning lighting systems with maintenance-free operation.

- Monitors and regulates charging and discharging of batteries
- Efficient transfer & dynamic management of energy (95% efficiency)
- Day/night transition via solar panel eliminates need for photocell
- Ten day/night memory averaging ensures accurate turn on/off of lights to prevent false response due to weather variations
- Allows for dimming of LED luminaire
- Temperature compensation and PWM controlled battery charging
- Low-voltage disconnect for battery protection

Specifications subject to local environmental conditions.
Specifications may be subject to change.
The management system governing the manufacture of this product is ISO 9001:2008 certified.
Document: SOL_TP_Spec_Sheet_RevF