

OVERVIEW

The Equatorial Series is designed for installations within 30 degrees North or South of the Equator. System assembly is quick with plug and play installation. 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.

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



REPRESENTED IN YOUR REGION BY:

TECHNICAL SPECIFICATIONS

SOLAR PANEL AND BATTERY	*EPA @ 45 DEGREES (Luminaire and arm additional)	PV DIMENSIONS (Length x Width x Height)	SYSTEM WEIGHT	**WIND LOAD RATING	**WIND LOAD RATING (with optional High Wind Bracket)
Single Panel 1 Battery	7.1 ft ² 0.66 m ²	59.1 x 26.3 x 1.81 in 1501 x 668 x 46 mm	223 lbs 105.7 kg	85 mph 135 kph	170 mph 270 kph
Dual Panels 2 Batteries	12.8 ft ² 1.1891 m ²	59.1 x 52.6 x 1.81 in 1501 x 1336 x 46 mm	336 lbs 152.4 kg	85 mph 135 kph	170 mph 270 kph

* (Effective Projected Area) at 0° Power Unit + Arm + Battery Box + Luminaire
 ** Wind load assumes 15 ft mount height

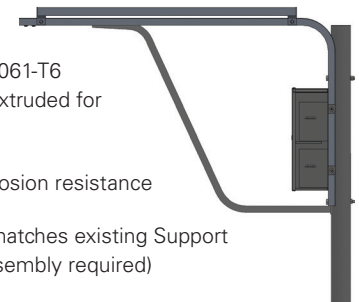
SYSTEM DATA	
System Colors	Aluminum/Silver (natural finish)
Material	Grade "A" corrosion resistant aluminum for battery enclosure and solar panel frame
Security	Security bolts used to fasten cover. Battery box mounted at top of pole to reduce vandalism and theft opportunities.
Warranty	5 year system 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	
Compatible Luminaires	Cree XSP Series™ LED Street/Area Luminaire
IES Light Distributions	Type 2 Long, 3 Med
Color Temperature Options	4000K; 5700K
Color Rendering Index (CRI)	Minimum 70CRI
Weight	11 lbs; 5 kg
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
Controller	Luminaire and finish endurance tested to withstand 5000 hrs of elevated ambient salt fog conditions as defined in ASTM Standard B 117
	TUV listed to UL 60950-1:2007 CSA C22.2.60950-1:2007

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

HIGH WIND BRACKET (OPTIONAL)



- Constructed of 6061-T6 aluminum alloy extruded for optimal strength
- "A" rated for corrosion resistance
- Easy to install - matches existing Support Arm (minimal assembly required)
- Increases wind load rating to 170 mph (270 kph); ideal for hurricane-prone areas

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_AL_Spec_Sheet_RevD