

ZX100 SERIES

COMMERCIAL SOLAR LED LIGHTING SYSTEM



PHILIPS
LUMILEDS



The **ZX100** solar lighting system is the most advanced on the market. Ideal for **community mailboxes lighting, parking lots, public parks and pathways**. It integrates a solar module, a battery, and a smart controller all paired with the latest Philips LED lighting technology in a simple and compact design. Installation is therefore easy, quick and secure.

The **ZX100** offers several operating profiles to meet different needs. Light intensity can be dimmed when full power is not required to increase operating hours. Operating profiles can be easily modified thanks to the built-in wireless communication.

FEATURES & BENEFITS

- Weather adaptive technology;
- Automatic activation at sunset and/or before sunrise;
- Dimming options;
- 10 days autonomy without sunlight;
- Wireless communication;
- Flexible operating profiles according to your needs, modifications via remote control.
- No power cables, no trenching;
- > 100 000hrs Philips maintenance free LED operation;
- Universally recognized **common battery group sizes**, easily sourceable locally;
- Easy battery replacement access door;
- Powder coated aluminium housing;
- Quick, easy and safe installation.

APPLICATIONS

- Parking lots;
- Community Mailboxes;
- Public parks;
- Walking paths;
- Bicycle paths;
- Boardwalks;
- Bus shelters;
- Remote areas.



MANUFACTURED BY:

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LICENSED FOR
CANADIAN WINTERS

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LIGHTING SPECIFICATIONS	zX100 Solar Lighting System
Philips Lumileds lumen/Watt	175lm/W
Luminaire Power (Watt)	15 W
Lumens (lm)	2625 lm
Dimming / Programmable	Yes, see "Operating Profile" document for details.
Light Distribution Type	2M, 3M and 5S
Color temperature (°K)	4000°K, 3000°K, 2200°K or 590nm (Turtle-Friendly Lighting)
CRI (Color Rendering Index)	70
LED Lifespan	> 100 000 hours
Recommended mounting height - ft (M)	10 to 18ft (3 to 5,5 meters)
Recommended spacing factor	6 x Mounting Height
Operation	Hours of operation can be divided between evening and morning (before sunrise). The light intensity can also be dimmed. Operating profiles can be modified via remote control, sold separately.

SOLAR SYSTEM SPECIFICATIONS	
Solar Module (Watt)	100W
Battery Bank Capacity (Ah)	74Ah @12Vdc (888Wh)
Battery type	Deep Discharge AGM, GEL
Battery Overcharge/Discharge protection	YES
Autonomy (number of days without sunlight)	10 days, with the "weather adaptive technology" and a fully charged battery
Operating temperature range	-40°C +60°C

MECHANICAL SPECIFICATIONS	
Solar System mounting	Top of pole installation, Pole maximum outer diameter: 5" (127mm), Square , (pole not included)
Luminaire mounting	Horizontal tenon, 2-3/8"Ø dia. (included)
Unit Weight - lb (Kg) (EPA)	107lb (48.7 Kg) (EPA = 4.75ft ²)

WARRANTY & CERTIFICATIONS	
Warranty	Solar Module: 25 years Controller: 10 years Batterie: 5 years (prorata) Light Fixture: 10 years
Certifications	Light fixture : CE, UL, cUL, DLC, LM79, LM80 Controller : CE compliant, UL listed to UL1741 and CSA C22.2 No. 107.1-16 UL listed to ANSI/ISA 12.12.01-2015 and CSA C22.2 No. 213-15 Solar Module : TÜV SÜD listed to UL 1703 and IEC 61730

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ZX100 ORDERING CODE

Series	OPERATING PROFILE SELECTION	Morning Mode*	Weather adaptive technology enabled**	Color Temperature (°K)	Light Distribution	Sleeve pole shape	Color
ZX100	Luminaire nominal power = 15W = 2625 lumens						
	A = Dusk 4h at 100%, then OFF	N = NO	N = NO	4000 = 4 000°K	T2 = Type 2M	SQ = Square 5"x5"	BK = Black
	B = Dusk 8h at 50%, then OFF	Y = YES	Y = YES	3000 = 3 000°K	T3 = Type 3M		SM = Custom
	C = Dusk to Dawn at 30%			2200 = 2 200°K	T5 = Type 5S		
	D = Dusk 3h at 100% + 4h at 30%			590 = 590nm (Turtle-Friendly)			
	SM = Custom						

Example: **ZX100-15W-A-N-Y-4000-T3-SQ-BK** (ZX100 - 15W - _____ - _____ - _____ - _____ - _____)

*Morning mode, 1 hour from the evening segment will be transferred to the morning segment (1 hour of lighting before sunrise).

** When "weather adaptive technology" is enabled, light output is modulated according to environmental conditions and cannot be controlled by the user for profiles B and C.

ACCESSORIES SOLD SEPERATLY

DESCRIPTION	PART NUMBER	NOTES :
ELLIPTICAL POLE ARM, 2 ft lenght	#RE2MA	Otherwise, a standard side of pole tenon is provided for the luminaire installation. See <i>Installation Guide</i> for details. (EPA = ZX + 1.5pi ²)
STRAIGHT POLE ARM (12 Deg.) 2 ft lenght	#RD212	Otherwise, a standard side of pole tenon is provided for the luminaire installation. See <i>Installation Guide</i> for details. (EPA = ZX + 1.5pi ²)
ARTICULATED ADAPTER ± 20 DEGREES	#TENART20	Allows light redirection.
REMOTE CONTROL	#RC01	Not required for system installation and operation
BACKLIGHT SHIELD	#BL-SHIELD	Reduce light trespass behind the luminaire.

Contact us to determine which product suits your needs and specific location or for customized solutions. These data are based on the worst month of the year according to the mean daily global insolation provided by Natural Resources Canada for Montreal with solar module facing south.



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