

# TX360 & TX180 SERIES

## SOLAR LED LIGHTING SYSTEMS



PHILIPS  
LUMILEDS



LM-79  
LM-80

IP66  
IK08



CE CB

RoHS  
Compliant



This elegant design is our 3<sup>rd</sup> generation of commercial solar lighting system using PHILIPS LUXEON @TX LEDs. Offering more power, more autonomy and more flexibility, the TX series is ideal for lighting large and busy areas such as parking lots and public areas. Designed to be durable and efficient, the TX series is an intelligent solar system easy to install.

The TX system combines a solar module, a battery, an intelligent charge and lighting controller all paired with the latest LED lighting technology from Philips. Operating profiles can be modified to meet your changing needs.

### FEATURES & BENEFITS

- Weather adaptive technology;
- Pre-assembled design for fast installation;
- Automatic activation at sunset and/or before sunrise;
- > 100 000 hours Philips maintenance free LED operation;
- **14 days autonomy** without sunlight;
- Wireless communication;
- Flexible operating profiles according to your needs, modifications via remote control, sold separately;
- **IP68** Rated Waterproof electronic.
- Universally recognized **common battery group sizes**, easily sourceable locally;
- **Single or dual light** configuration available;
- Access door for easy battery replacement;
- Powder coated aluminium housing;
- No power cables needed;
- Quick, easy and safe installation.

### APPLICATIONS

- Street lighting;
- Parking lots;
- Public parks;
- Bicycle paths;
- Remote areas.



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LICENSED FOR  
CANADIAN WINTERS

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LIGHTING SPECIFICATIONS	Solar Lighting System TX360 & TX180				
Philips Lumileds Lumen/Watt	175lm/W	170lm/W	165lm/W	160lm/W	150lm/W
Luminaire Power (Watt)	15 W	25 W	35 W	45 W	60 W
Lumens output (lm)	2625 lm	4250 lm	5775 lm	7200 lm	9300 lm
Dimming / Programmable	Yes, see "Operating Profile" document for details.				
Light Distribution Type	2M, 3M and 5S ( <b>single or dual light</b> configuration available)				
Color temperature (°K)	4000°K, 3000°K, 2200°K or 590nm (Turtle-Friendly Lighting)				
CRI (Color Rendering Index)	70				
LED Lifespan (Philips Lumileds TX)	> 100 000 hours				
Recommended mounting height (Feet)	12-18ft	14-20ft	16-20ft	16-20ft	16-22ft
Recommended spacing factor	5 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)	TX360 = <b>360W (2x 180W)</b> TX180 = <b>180W (1x 180W)</b>
Battery Bank Capacity (Ah)	TX360 = 110Ah @24Vdc ( <b>2x 110Ah, 12V</b> ) ( <b>2640Wh</b> ) TX180 = 110Ah @12Vdc ( <b>1x 110Ah, 12V</b> ) ( <b>1320Wh</b> )
Battery type	Deep Discharge type AGM, GEL
Battery Overcharge/Discharge protection	YES
Autonomy (number of days without sunlight)	<b>14 days</b> , with the "weather adaptive technology" and a fully charged battery
Operating temperature range	-40°C +60°C

MECHANICAL SPECIFICATIONS	
Mounting type	Top of Pole (TOP), Square, requires 5" max. outer dia. (pole not included)
Unit Weight - lb (Kg) (EPA)	<b>TX360</b> = 239lb (109Kg) (EPA=16.1ft <sup>2</sup> ) : <b>TX180</b> = 151lb (69Kg) (EPA = 11.3ft <sup>2</sup> )

WARRANTY & CERTIFICATIONS	
Warranty	Solar Module : <b>25 years</b> Controller: <b>10 years</b> Battery: <b>5 years (prorata)</b> Light Fixture: <b>10 years</b>
Certifications	<b>Light fixture</b> : CE, UL, cUL, DLC, LM79, LM80 <b>Module solaire</b> : ETL Intertek listed to UL Std UL61730-1/-2 and UL61215 -1/-1/-2. Certified to CSA Std C22.2#61730-1/-2 <b>Controller</b> : CE compliant (Off-Grid)

# TX360 SERIES

## SOLAR LED LIGHTING SYSTEMS

### TX360 ORDERING CODE

Series	Luminaire Power (W)	Operating Profile	Single or Dual* light configuration	Color Temperature	Light distribution pattern
TX360	15W	A = Dusk to Dawn @ 100%	S1 = 1 light D2 = 2 lights* see note	4000 = 4 000K 3000 = 3 000K 2200 = 2 200K 590 = 590nm (Turtle-Friendly Lighting)	T2 = Type 2M T3 = Type 3M T5 = Type 5S
	25W	A = Dusk 12h 100%, then OFF			
		B = Dusk 10h 100%, OFF, 2h morning			
		C = Dusk 8h 100%, 40%, 2h morning 100%			
	35W	A = Dusk 9h 100%, then OFF			
		B = Dusk 8h 100%, OFF, 1h morning			
		C = Dusk 6h 100%, then 30%			
	45W	A = Dusk 6h 100%, then OFF			
		B = Dusk 5h 100%, OFF, 1h morning			
		C = Dusk 2h 100%, then 30%			
	60W	A = Dusk 4h 100%, then OFF			
		B = Dusk 3h 100%, OFF, 1h morning 100%			
		C = Dusk 3h 100% + 3h at 40%, then OFF			

Example: TX360-35W-A-S1-4000-T3 ( \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ )

\*The lighting power output will be divided between the 2 lights when the dual light configuration is selected. If needed, contact your representative for a customized operation profile.

\*\*\*"Weather adaptive technology" is activated by default, the light output is modulated according to the environmental conditions.



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# TX180 SERIES

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### TX180 ORDERING CODE

Series	Luminaire Power (W)	Operating Profile	Single or Dual* light configuration	Color Temperature	Light distribution pattern
TX180	15W	A = Dusk 9h 100%, then OFF	S1 = 1 light D2 = 2 lights* see note	4000 = 4 000K 3000 = 3 000K 2200 = 2 200K 590 = 590nm (Turtle-Friendly Lighting)	T2 = Type 2M T3 = Type 3M T5 = Type 5S
		B = Dusk 8h 100%, OFF, 1h morning			
	25W	A = Dusk 6h 100%, then OFF			
		B = Dusk 5h 100%, OFF, 1h morning			
		C = Dusk 4h 100% + 4h at 50%, OFF			
	35W	A = Dusk 4h 100%, then OFF			
		B = Dusk 3h 100%, OFF, 1h morning			
		C = Dusk 3h 100% + 3h at 40%, OFF			
	45W	A = Dusk 3h 100%, then OFF			
		B = Dusk 2h 100%, OFF, 1h morning			
		C = Dusk 2h 100% + 3h at 30%, OFF			

Example: **TX180-35W-A-S1-4000-T3** ( \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ )

\*The lighting power output will be divided between the 2 lights when the dual light configuration is selected. If needed, contact your representative for a customized operation profile.

"Weather adaptive technology" is activated by default, the light output is modulated according to the environmental conditions.

### ACCESSORIES SOLD SEPERATLY

DESCRIPTION	PART NUMBER	NOTES :
ADDITIONAL LUMINAIRE FOR DOUBLE HEAD	#LUMH1-EXT	Standard side of pole tenon is included for the extra luminaire installation.
ELLIPTICAL POLE ARM, 2 ft length	#RE2MA	Otherwise, a standard side of pole tenon is provided for the luminaire installation. See <i>Installation Guide</i> for details.
STRAIGHT POLE ARM (12 Deg.) 2 ft length	#RD212	Otherwise, a standard side of pole tenon is provided for the luminaire installation. See <i>Installation Guide</i> for details.
ARTICULATED ADAPTER ± 20 DEGREES	#TENART20	Allows light redirection.
REMOTE CONTROL	#RC01	Not required for system installation and operation.

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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