

Light, **Wherever You Are**

EVOLVE has you covered.

Solar lighting can be a lifesaver in remote areas that lack the needed infrastructure. Our world-class solutions provide up to 200 lm/W, to light up places the power grid cannot reach. Furthermore, Current has a professional team that is able to provide you with **Global Solar Energy Calculations (GSEC)** to help assess your design needs and ROI.



HIGH EFFICIENCY

Our solar technology is among the most stable, advanced and mature in the global market today, with an efficacy of up to 200 lm/W. This provides brighter illumination with lower power consumption, optimizing solar energy utilization and minimizing waste.



ePowerMax



ePowerEco



ePG-S



ePG-B



ePG-R

Current 

DURABLE SOLAR PANELS

Our solutions come equipped with tough, high-efficiency Monocrystalline silicon solar panels. They have a **photoelectric conversion efficiency of 23%**, surpassing traditional solar panels by more than 30%. This exceptional energy capture ensures continuous lighting, even when the sky is cloudy. Built to last with resistance to weathering and corrosion, our solar panels have a **20 year lifespan**.



LONG LASTING BATTERIES



Our solar lights are powered by robust, high-capacity batteries, ensuring bright and uninterrupted illumination. We're committed to using **LiFePO4** batteries that meet global safety and performance standards, guaranteeing **unmatched reliability and longevity**. For example, in terms of charge cycles, **LiFePO4 batteries outperform** Ternary batteries **by more than 2x**.

INTELLIGENT LIGHTING

Integrated sensors and controllers enable light output optimization while balancing the need to harvest energy for nights and periods of low sunlight. **Lights can be dimmed, timed or activated by motion as needed or via customized programming using our MPPT Solar Controller**. There is also a hybrid power option that automatically to draw from the power grid whenever it is needed.



ePG-R



EVOLVE Solar LED Garden Lantern



The Evolve Solar LED Garden Lantern offers streamlined design that blends in smoothly with the environment to create a beautiful urban landscape

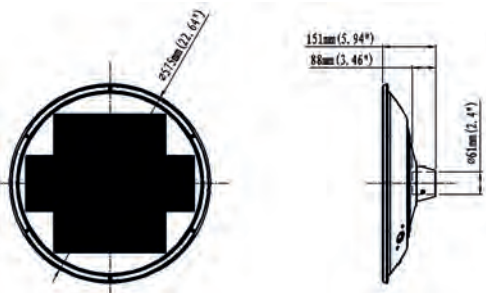


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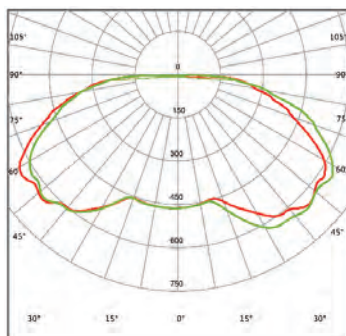
Typical Specifications

System Power	10W	20W	30W
Lumens	1300lm	2600lm	3900lm
Autonomy	2 Days		
System Efficacy	130 LPW Max.		
CCT	3000K - 7500K		
CRI	Ra≥70		
SDCM	≤5		
Beam Angle	A1		
Charging	MPPT		
Overheat Protection	Yes		
Output Short Circuit Protection	Yes		
Protection	IP65/IK07		
Safety Class	Class I		
Fixture Standards	IEC 60598-2-3		
Battery Standards	IEC 62133 – 2		
Solar Panel Standards	IEC 61215, IEC 61730 ed. 1		
Housing Material	Die-cast Aluminum with corrosion resistant powder coated paint		
Working Temperature	-10~+50°C		
Rated Lifetime	50,000 hrs		

Dimension

	Fixture Wattage	Side Entry Dimension	N.W.
	10W	Φ575x151mm	6.6 Kg
	20W	Φ575x151mm	7.2 Kg
	30W	Φ575x151mm	7.8 Kg

Photometric





Order Logic

ePG-R 10W 7 40 A1 B S -

PROD. ID	Wattage	Ra	CCT	Light Distribution	Color	Input Version	Optional
ePG-R= ePower-Garden round series Solar Lantern	10W	7=Ra70	30=3000K	A1	B=Black	S=Solar	PR=PIR Sensor
	20W		35= 3500K		S=Silver	A=AC220V input	MS=Microwav Sensor
	30W		40=4000K			H=Solar+AC220V	Blank= Without Sensor
			57=5700K				
			65=6500K				

Order Description

Description	Solar Panel	Ra	CCT	Fixture Wattage	Lumens (lm)	LFEP04 Battery	Distribution	QTY/CTN
ePG-R10W740T5BS	30W	70	4000K	10W	1,300	76.8Wh	A1	1 pc
ePG-R20W740T5BS	30W	70	4000K	20W	2,600	153.6Wh	A1	1 pc
ePG-R30W740T5BS	30W	70	4000K	30W	3,900	230.4Wh	A1	1 pc
ePG-R10W757T5BS	30W	70	5700K	10W	1,300	76.8Wh	A1	1 pc
ePG-R20W757T5BS	30W	70	5700K	20W	2,600	153.6Wh	A1	1 pc
ePG-R30W757T5BS	30W	70	5700K	30W	3,900	230.4Wh	A1	1 pc

* Customize specification is available upon request

** Above only partially of product info. Please consult us if you need full product order logic.



ePG-S



EVOLVE Solar LED Garden Lantern

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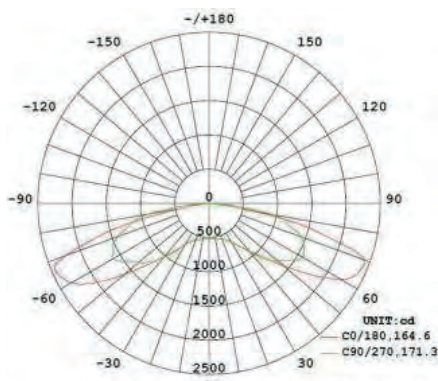
Typical Specifications

System Power	10W	20W	30W
Lumens	1900lm	3800lm	5700lm
Autonomy		2 Days	
System Efficacy		190 LPW Max.	
CCT		3000K - 6500K	
CRI		Ra≥70	
SDCM		≤5	
Beam Angle		Type V	
Charging		MPPT	
Overheat Protection		Yes	
Output Short Circuit Protection		Yes	
Protection		IP66/IK07	
Safety Class		Class I	
Fixture Standards		IEC 60598-2-3	
Battery Standards		IEC 62133 - 2	
Solar Panel Standards		IEC 61215, IEC 61730 ed. 1	
Housing Material	Die-cast Aluminum with corrosion resistant powder coated paint		
Working Temperature		-10~+50°C	
Rated Lifetime		50,000 hrs	

Dimension

	Fixture Wattage	Side Entry Dimension	N.W.
	30W	L796 x W422 x H342mm	13.5 Kg
	40W	L1100 x W422 x H342mm	16.5 Kg
	50W	L1100 x W422 x H342mm	17 Kg

Photometric



Order Logic

ePG-S 10W 7 40 T5 B S -

PROD. ID	Wattage	Ra	CCT	Light Distribution	Color	Input Version	Optional	
ePG-S= ePower-Garden Square series Solar Lantern	10W	7=Ra70	30=3000K	T5=Type V	B=Black	S=Solar	PR=PIR Sensor	
	20W		35= 3500K		S=Silver	A=AC220V input	MS=Microwave Sensor	
	30W		40=4000K			H=Solar+AC220V	Blank= Without Sensor	
			57=5700K 65=6500K					

Order Description

Description	Solar Panel	Ra	CCT	Fixture Wattage	Lumens (lm)	LFEP04 Battery	Distribution	QTY/CTN
ePG-S10W740T5BS	35W	70	4000K	10W	1,900	76.8Wh	Type V	1 pc
ePG-S20W740T5BS	35W	70	4000K	20W	3,800	153.6Wh	Type V	1 pc
ePG-S30W740T5BS	35W	70	4000K	30W	5,700	230.4Wh	Type V	1 pc
ePG-S10W757T5BS	35W	70	5700K	10W	1,900	76.8Wh	Type V	1 pc
ePG-S20W757T5BS	35W	70	5700K	20W	3,800	153.6Wh	Type V	1 pc
ePG-S30W757T5BS	35W	70	5700K	30W	5,700	230.4Wh	Type V	1 pc

* Customize specification is available upon request

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ePowerMax
Solar Lantern



EVOLVE Roadway

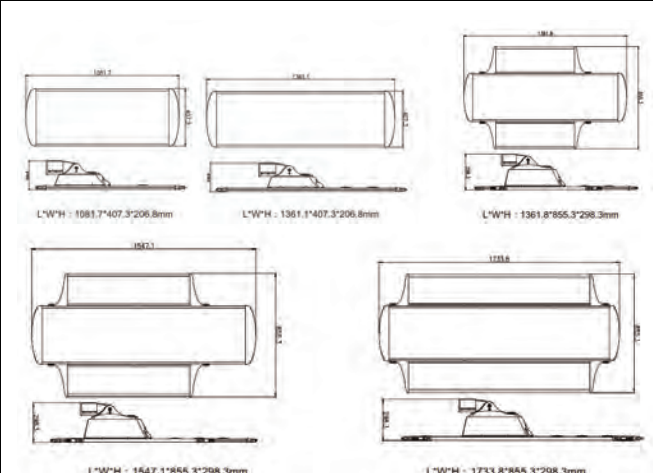


Current 

Typical Specifications

System Power	40W	50W	60W	80W	100W	120W
Solar Panel	80W	100W	150W	180W	240W	270W
Lumens	5600lm	7200lm	9000lm	12000lm	15000lm	18000lm
Operation Mode J	4hrs - 100%, 2hrs - 60% & 6hrs - 40%					
Operation Mode S	100% - until dawn					
Operation Mode U	100% - 1hrs, 70% - 3hrs, 50% when motion detected & 20% standby after 20s					
System Efficacy	200 LPW Max.					
CCT	3000k - 5700K					
CRI	Ra≥70					
SDCM	≤5					
Beam Angle	Type II S/Type II M/ Type III					
Secondary SPD	10KV/20KV Optional					
Dimming	0-10V					
Charging	MPPT					
Overheat Protection	Yes					
Output Short Circuit Protection	Yes					
Protection	IP66/IK09					
Safety Class	Class I					
Fixture Standards	IEC 60598-1, IEC 60598-2-3					
Battery Standards	IEC 62133 - 2					
Solar Panel Standards	IEC 61215, IEC 61730 ed. 1 & 2					
Housing Material	Die-cast Aluminum with corrosion resistant powder coated paint					
Working Temperature	-40~+50°C					
Rated Lifetime	50,000 hrs					
Pole Diameter	60-80mm					

Dimension

	Fixture Wattage	Side Entry Dimension	N.W.	Spigot (Ø mm)
	40W	L1081.7 x W407.3 x H206.8 mm	14 Kg	Ø 85mm
	50W	L1361.1 x W407.3 x H206.8 mm	18.5 Kg	Ø 85mm
	60W	L1361.8 x W855.3 x H298.3 mm	28.5 Kg	Ø 85mm
	80W	L1547.1 x W855.3 x H298.3 mm	31.5 Kg	Ø 85mm
	100W	L1733.8 x W855.3 x H298.3 mm	37.5 Kg	Ø 85mm
	120W	L1733.8 x W855.3 x H298.3 mm	44.5 Kg	Ø 85mm





Product Features

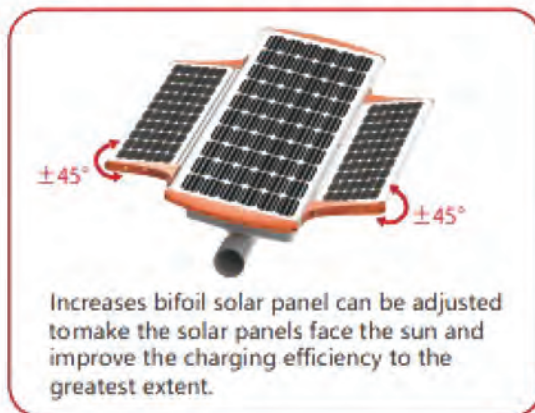
Installation



Super High Power



Adjustable Solar Panel



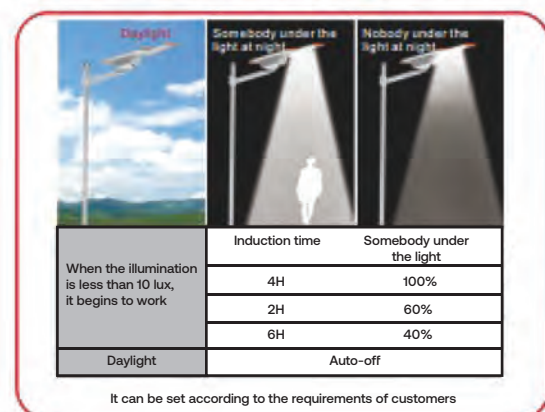
Convenient Maintenance



Networking Control



Sensor Control System



Order Logic

ePX	WW	J	40W	T2S	G	-
PROD. ID	CCT	Operation Mode	Wattage	Light Distribution	Color	Optional
ePx= ePowerMax Solar Street Lantern	WW: 3000K	J=J mode	40W	T2S:=Type II Short	G= Gray	MS=Motion Sensor
	N: 4000K	S=S mode	60W	T2M:=Type II Medium	B= Black	HB=Hybrid
	CW: 5700K	U=U mode	80W	T3=Type III		SA=Standalone
			100W			
			120W			

Order Description

Description	Solar Panel	CCT	Fixture Wattage	Lumens (lm)	LFEP04 Battery	Distribution	Operation Mode	Option
ePXWWJ40WT2SGSA	80W	3000K	40W	5600	537.6Wh	Type IIS	J	Standalone
ePXWWJ50WT2SGSA	100W	3000K	50W	7200	691.2Wh	Type IIS	J	Standalone
ePXWWJ60WT2SGSA	150W	3000K	60W	9000	921.6Wh	Type IIS	J	Standalone
ePXWWJ80WT2SGSA	180W	3500K	80W	12000	1075Wh	Type IIS	J	Standalone
ePXWWJ100WT2SGSA	240W	3500K	100W	15000	1228Wh	Type IIS	J	Standalone
ePXCWJ40WT2SGHB	80W	5700K	40W	5600	537.6Wh	Type IIS	J	Hybrid
ePXCWJ50WT2SGHB	100W	5700K	50W	7200	691.2Wh	Type IIS	J	Hybrid
ePXCWJ60WT2SGHB	150W	5700K	60W	9000	921.6Wh	Type IIS	J	Hybrid
ePXCWJ80WT2SGHB	180W	5700K	80W	12000	1075Wh	Type IIS	J	Hybrid
ePXCWJ100WT2SGHB	240W	5700K	100W	15000	1228Wh	Type IIS	J	Hybrid
ePXCWJ120WT2SGHB	270W	5700K	120W	18000	1474Wh	Type IIS	J	Hybrid

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ePowerEco
Solar Lantern



EVOLVE Roadway

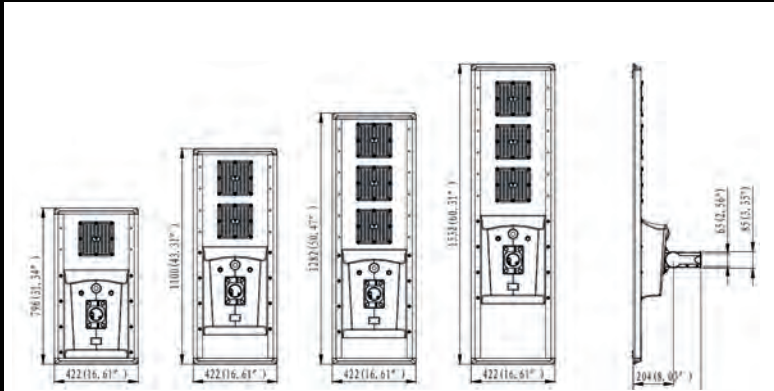


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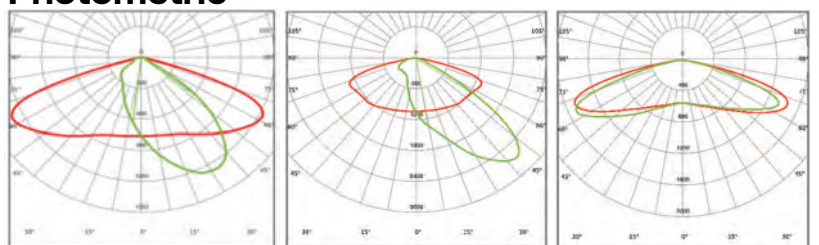
Typical Specifications

System Power	30W	40W	50W	60W	80W	100W
Solar Panel	45W	60W	80W	100W	120W	150W
Lumens	6000lm	8000lm	10000lm	12000lm	16000lm	20000lm
Operation Mode J	4hrs - 100%, 2hrs - 60% & 6hrs - 40%					
Operation Mode S	100% - until dawn					
Operation Mode U	100% - 1hrs, 70% - 3hrs, 50% when motion detected & 20% standby after 20s					
System Efficacy	200 LPW Max.					
CCT	3000k - 5700K					
CRI	Ra≥70					
SDCM	≤5					
Beam Angle	Type II /Type III /Type IV					
Secondary SPD	10KV/20KV Optional					
Charging	MPPT					
Overheat Protection	Yes					
Output Short Circuit Protection	Yes					
Protection	IP65/IK09					
Safety Class	Class I					
Fixture Standards	IEC 60598-1, IEC 60598-2-3					
Battery Standards	IEC 62133 - 2					
Solar Panel Standards	IEC 61215, IEC 61730 ed. 1					
Housing Material	Die-cast Aluminum with corrosion resistant powder coated paint					
Working Temperature	-10~+50°C					
Rated Lifetime	50,000 hrs					
Pole Diameter	60-76mm					

Dimension

	Fixture Wattage	Side Entry Dimension	N.W.
	30W	L796 x W422 x H342mm	13.5 Kg
	40W	L1100 x W422 x H342mm	16.5 Kg
	50W	L1100 x W422 x H342mm	17 Kg
	60W	L1282 x W422 x H342mm	20 Kg
	80W	L1282 x W422 x H342mm	21.5 Kg
	100W	L1532 x W422 x H342mm	24 Kg

Photometric



Order Logic

PROD. ID	CCT	Operation Mode	Wattage	Light Distribution	Optional
ePE= ePowerEco Solar Street Lantern	WW: 3000K	J=J mode	30W	T2=Type II	MS=Motion Sensor
	N: 4000K	S=S mode	40W	T3=Type III	HB=Hybrid
	CW: 5700K	U=U mode	60W	T4=Type IV	SA=Standalone
			80W		
			100W		

Order Description

Description	Solar Panel	CCT	Fixture Wattage	Lumens (lm)	LFEP04 Battery	Distribution	Operation Mode	Option	QTY/CTN
ePEWWJ30WT2SA	45W	3000K	30W	6000	230.4Wh	Type II	J	Standalone	1 pc
ePEWWJ40WT2SA	60W	3000K	40W	8000	307.2Wh	Type II	J	Standalone	1 pc
ePEWWJ50WT2SA	80W	3000K	50W	10000	384Wh	Type II	J	Standalone	1 pc
ePEWWJ60WT2SA	100W	3000K	60W	12000	450.8Wh	Type II	J	Standalone	1 pc
ePEWWJ80WT2SA	120W	3500K	80W	16000	614.4Wh	Type II	J	Standalone	1 pc
ePEWWJ100WT2SA	150W	3500K	100W	20000	768Wh	Type II	J	Standalone	1 pc
ePECWJ30WT2HB	45W	5700K	30W	6000	230.4Wh	Type II	J	Hybrid	1 pc
ePECWJ40WT2HB	60W	5700K	40W	8000	307.2Wh	Type II	J	Hybrid	1 pc
ePECWJ50WT2HB	80W	5700K	50W	10000	384Wh	Type II	J	Hybrid	1 pc
ePECWJ60WT2HB	100W	5700K	60W	12000	450.8Wh	Type II	J	Hybrid	1 pc
ePECWJ80WT2HB	120W	5700K	80W	16000	614.4Wh	Type II	J	Hybrid	1 pc
ePECWJ100WT2HB	150W	5700K	100W	20000	768Wh	Type II	J	Hybrid	1 pc

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