

OFF-GRID

LED SOLAR STREET LIGHT 60W/120W/180W/240W

The features of this solar street light is a semi-split design. The light engine and battery are built right into the LED fixture, the lamp body is separated from the solar panel. No need for a power source which eliminates the need for wiring and trenching.



- Fully programmable via solar controller and photo control
- Built-in battery and solar controller
- Advanced new LiFePO4 battery lasts at least 2000 charge cycles and will last three nights with one day charge
- Perfect for street , parks, parking lots, school campuses, etc.
- Dimensions (L x W x H):
 60W 503*169*85mm
 120W 568*210*75mm
 180W 659*250*79mm

240W 734*300*95mm

































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PRODUCT SPECIFICATION

Model	0335A60-01	0335B120-01	0335C180-01	0335D240-01
LED Type	60PCS 5050LED	120PCS 5050LED	180PCS 5050LED	240PCS 5050LED
Battery Type	LiFePO4 12,8V/36AH	LiFePO4 12,8V/48AH	LiFePO4 12,8V/54AH	LiFePO4 12,8V/60AH
Solar Panel Type	Polycrystalline 64W/18V	Polycrystalline 90W/18V	Polycrystalline 120W/18V	Polycrystalline 150W/18V
LED Lumen	160lm/w			
Color Temperature	3000K-6500K			
LED Lifespan	50000H			
Operating Temperature	-20°C~60°C			
Storage Temperature	-30°C~70°C			
IP Rating	IP65			
Product Size	503*169*85mm	568*210*75mm	659*250*79mm	734*300*95mm

PRODUCT DETAILS







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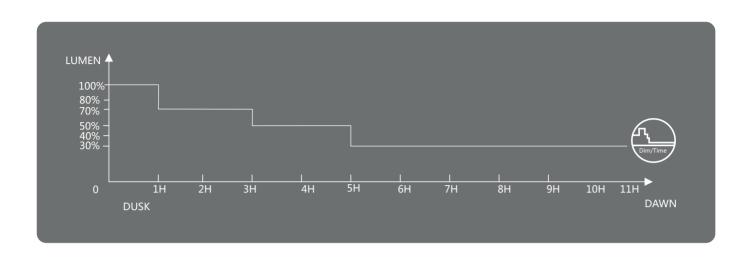




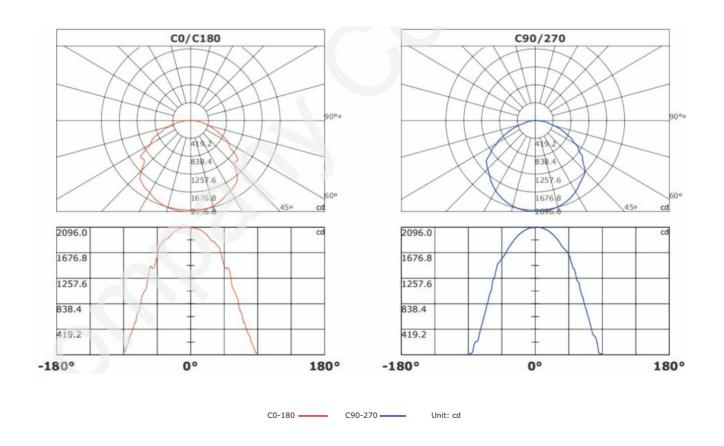




HOW THE LIGHT WORKS



PHOTOMETRICS



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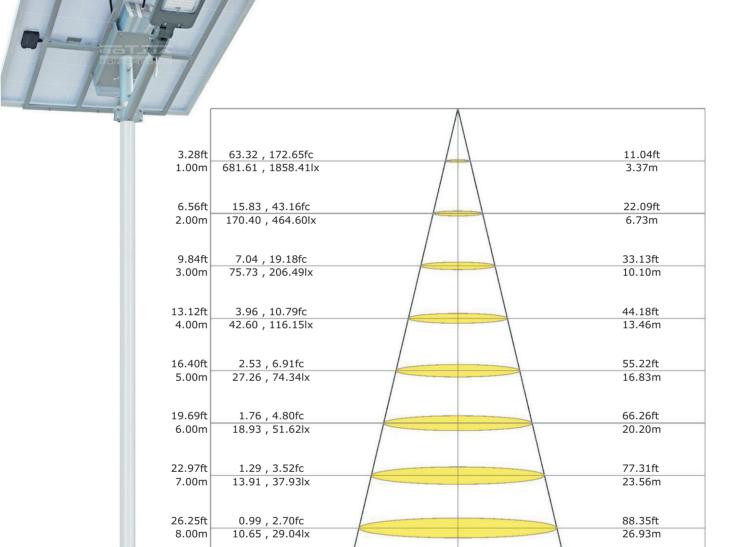








LX-DISTANCE DIAGRAM



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Beam angle:118.6 deg (C0_180)

NELSON SOLAR BP 6635 Ouagadougou CNT Ouaga BURKINA FASO WWW.NELSONSOLAR.COM

29.53ft

9.00m

32.81ft

10.00m

Height

0.78 , 2.13fc

8.41 , 22.94lx

0.63 , 1.73fc

6.82, 18.58lx

Ecenter, Emax









99.40ft

30.30m

110.44ft

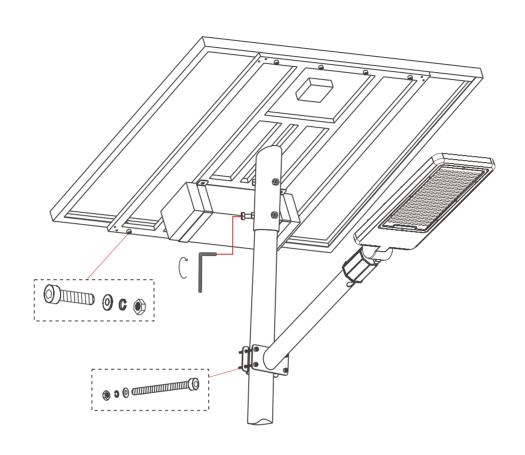
33.66m

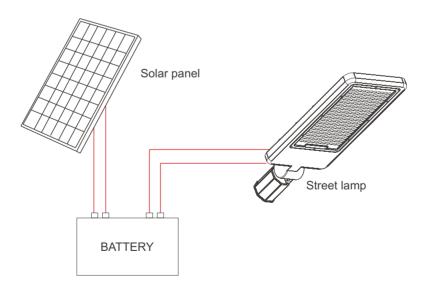
Diameter





INSTALLATION GUIDE





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BATTERY SPECIFICATION

DesignLife	6-8 years			
Nominal Voltage	12,8V			
Nominal Capacity	36Ah	48Ah	54Ah	60Ah
	Self-Discharge			
	3% of capacity declined per month at 20°C(average)			
	Operation Temperature Range			
Discharge	-20~60°C			
Charge	-10~60°C			
Storage	-20~60°C			
Max.Discharge Current 77°F(25°C)	1200A(5s)			
Short Circuit Current	3000A			

BATTERY GUARANTEE OF QUALITY



No.1 Battery Cells

High-end battery cells keep every cell's voltage, resistance, capacity, discharging always in sync



No.2 Battery Protector

High precision IC keep performance more stable protect over load , over charge ,over discharge ,short circuit ,over voltage ,over current keep battery pack always safe and long life span



No.3 Precision Welding Machine

Fully automatic precision welding machine can ensure that every battery can be welded firmly to prevent the danger of short circuit or power failure



No.4 Aging Test Machine

every battery pack need to thorough charging and discharging test by the aging test machine to keep 100% qualified

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MPPT SPECIFICATION

Intelligent Wireless solar Charge Controller With Step-Up LED Driver























MPPT MAIN FEATURES

- 1.New design of wireless remote-control can modify the controller parameter and read the system message according to the handheld device.
- 2. Digital high precision constant-current control, the maximum efficiency can reach 96%.
- 3. The working current can be adjusted from 0.15A to 3.96A, the regulating precision is 30mA.
- 4. High dynamic performances of load insure current output stability even though the battery voltage and load sudden change.
- 5.3 section time frame dimming function design, work time can be set range from 0h to 15 hours, power can be set range from 0% to 100%.
- 6.Intelligent power mode, the load power can be adjust automatically according to the battery power, can extend the maximum working time of the battery.
- 7.Record the system status, can record at a max 7days and monitor the whole system.
- 8. The true constant current but not limited the current, insure the current output stability thus decrease LED light failure, increase the LED service life.
- 9.Metal case, IP68 waterproof degree, can suitable use in all kinds of bad conditions.
- 10. With modified calculation of charging, the charging efficiency is improved, which lengthen the using time of solar energy.
- 11. Overheat preventing function, above a certain temperature will decrease the load or close the load.
- 12. Varies system protection function. Including the battery reverse connection, LED short circuit, open circuit protection and so on.

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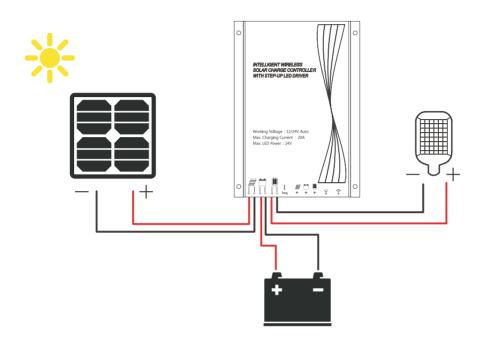








MPPT WIRING GUIDE



MPPT STATUS INDICATION

LED light	Indications	Status	Functions
	Charging indication	Long-term On	The solar panel voltage is higher than light control voltage
		Long-term O _「	The solar panel voltage is lower than light control voltage
		Slow twinkling	charging
		Fast twinkling	System over voltage
* *	Battery indication	Long-term On	battery works normally
		Long-term O ┌	battery unconnected
		Fast twinkling	battery is excessively discharged
		Long-term On	Load is on
	Load indication	Slow twinkling	The load is open circuit.
		Fast twinking	The load is short circuit.
		0 г	The load is o $_{\Gamma}$.

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PROJECT SUCCESS CASE



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