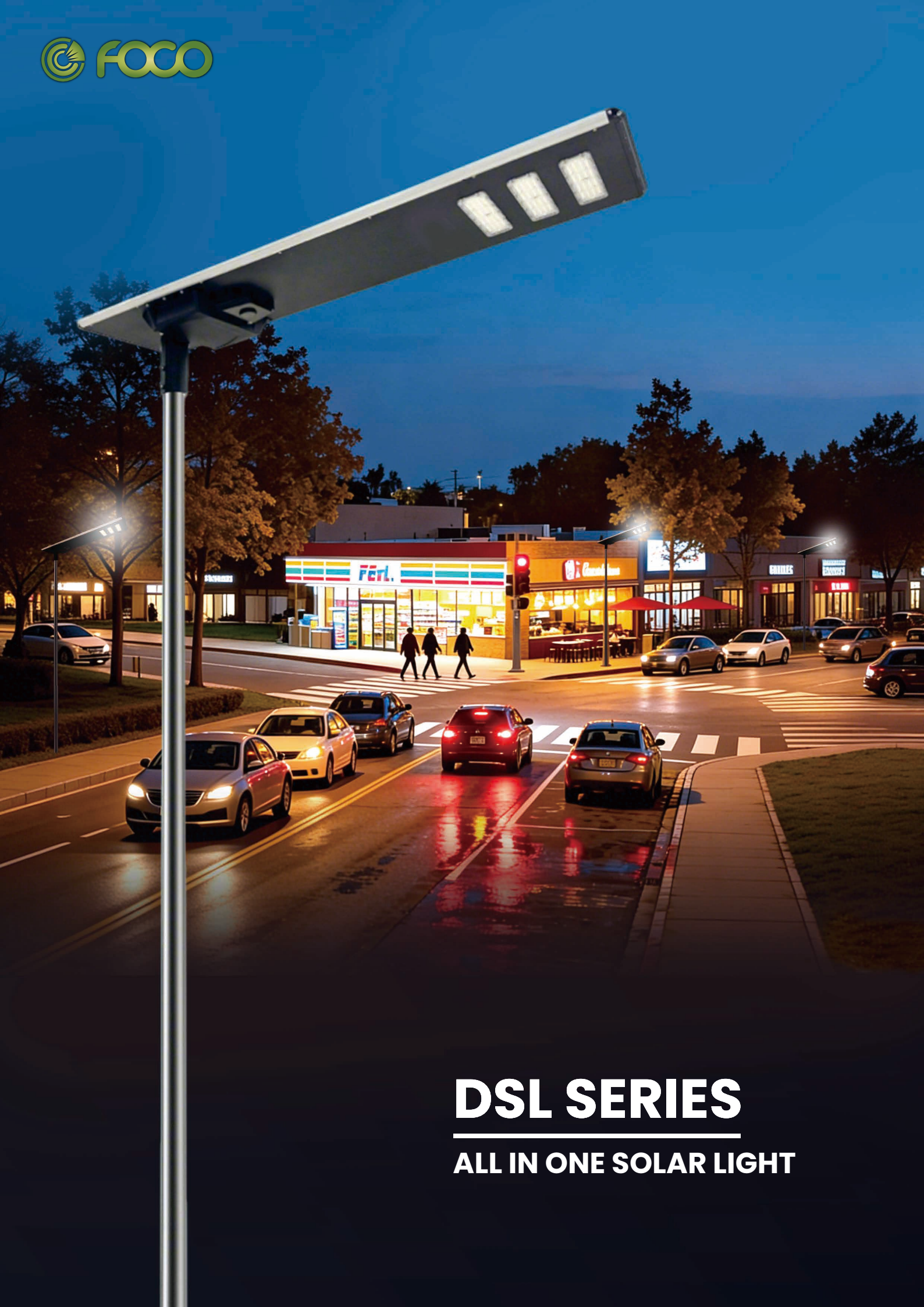


DSL SERIES

ALL IN ONE SOLAR LIGHT

INTRODUCTION

The PKS-DSL All-in-One Solar Light integrates high-efficiency solar panels, a durable battery, high-output LED array, and an intelligent sensor controller into a sleek, compact design. It delivers reliable, self-sustaining illumination for streets, sidewalks, community spaces, and commercial lots—no grid power or external wiring required.

Its high-efficiency solar panels fully absorb light energy for rapid charging and excellent conversion, even on overcast days. Multiple LED lights deliver high brightness, uniform illumination, and wide coverage, while smart sensing capabilities automatically adjust brightness or switch the light on/off based on ambient light levels to boost energy savings.

Encased in a rugged, impact-resistant enclosure with IP65 weather protection and IK08 anti-vandal rating, it withstands rain, dust, extreme temperatures, and physical impact. With easy installation and zero maintenance, the PKS-DSL is a cost-effective, eco-friendly lighting solution for off-grid and sustainable outdoor applications.

NOM CE RoHS IP65



FEATURES



High Efficacy & Energy Saving: Up to 170 lm/W, reducing energy consumption by over 60% compared with HID fixtures.



Adjustable Sleeve: The sleeve can be adjusted to different angles according to varying installation requirements, facilitating improved road illumination.



High Brightness: High-brightness LED lighting modules deliver ample, uniform, large-area illumination with minimal power consumption, outperforming traditional light sources.



High Efficiency Solar Cells: Solar-powered, no need for external power supply, energy-saving and environmentally friendly.



PIR Sensor Options: Smart motion sensing for energy saving and extended lifespan.



12V MPPT Controller: Intelligent to control the dimming by PIR/Motion sensor and timer.



Reliable Warranty:
3 / 5 Years Warranty Options.

- **Robust Protection:**
  IP65 waterproof & dustproof, IK08 impact resistance for harsh industrial environments.

- **Superior Thermal Management:**
  Die-cast aluminum housing with optimized heat sink for reliable performance.

APPLICATIONS



Urban or Highway Area Lighting: Solar LED lights eliminate the need for costly trenching, wiring, and grid connection, delivering significant infrastructure savings. Complemented by high-capacity lithium-ion batteries, they provide 2-3 days of reliable backup illumination during cloudy weather or rainstorms, a critical advantage for highways and urban routes in regions with variable climate conditions.



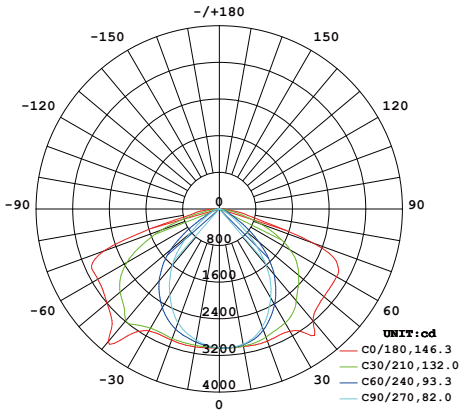
Industrial & Logistics Zones: Solar LED lights are uniquely engineered to thrive in these high-demand environments. By addressing core pain points, including high energy costs, remote locations with limited grid access, and stringent safety regulations, they seamlessly balance reliability, cost-efficiency, safety, and regulatory compliance.

TECHNICAL PARAMETERS

Product Model	DSL-60W	DSL-80W	DSL-100W
Electrical Performance			
Wattage	60W	80W	100W
Input Voltage	12V	12V	12V
Battery Type	LiFePO4	LiFePO4	LiFePO4
Battery Capacity	12.8V 24AH	12.8V 36AH	25.6V 24AH
Charging Time	6 Hours	6 Hours	6 Hours
Discharging Time	24-36h (2-3 nights)	24-36h (2-3 nights)	24-36h (2-3 nights)
Cycles of Battery	>2000	>2000	>2000
Solar Panel	75W/18V	95W/18V	115W/36V
Controller	MPPT	MPPT	MPPT
Optical Performance			
Luminous Efficacy	170lm/W	170lm/W	170lm/W
Luminous Flux	10200lm	13600lm	17000lm
CCT	3000-6000K Options	3000-6000K Options	3000-6000K Options
CRI	Ra≥70	Ra≥70	Ra≥70
Beam Angle	114°	114°	114°
Reliability			
Lifetime	50000h-100000h	50000h-100000h	50000h-100000h
Operating Temperature	-10 ~ +60°C	-10 ~ +60°C	-10 ~ +60°C
Storage Temperature	-40 ~ +70°C	-40 ~ +70°C	-40 ~ +70°C
Ingress Protection	IP65	IP65	IP65
Impact Resistance	IK08	IK08	IK08
Sensor Control			
Daylight Sensor	-	-	-
Operating Mode	-	-	-
Mechanical			
Housing Material	Aluminum	Aluminum	Aluminum
Lens Material	PC	PC	PC
Coating	Black or Silver	Black or Silver	Black or Silver
Net Weight	11.42kg	14.45kg	17.13kg
Dimensions	1080x445x125mm	1390x445x125mm	1680x445x125mm
Recommended Mounting Height	4-8m	4-8m	4-8m
Wind Resistance	42m/s	42m/s	42m/s
Warranty	3/5 Years	3/5 Years	3/5 Years

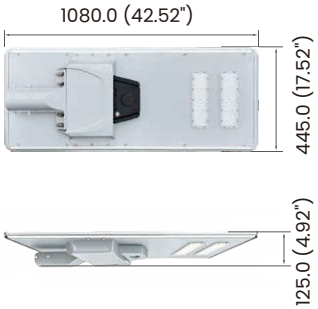
PHOTOMETRICS

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS

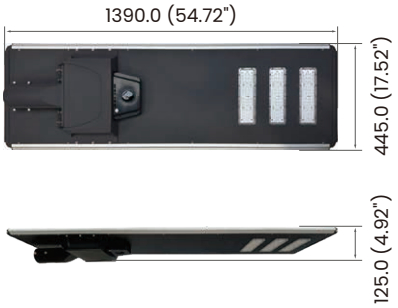


AVERAGE BEAM ANGLE(50%): 113.4 DEG

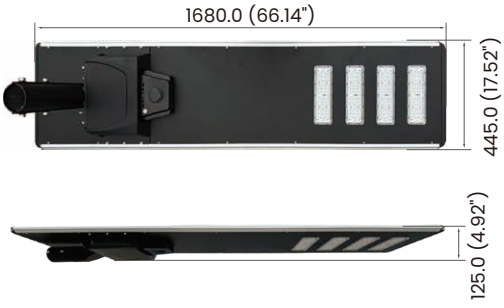
MECHANICAL DIMENSIONS



60W



80W

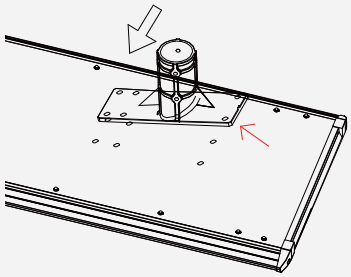


100W

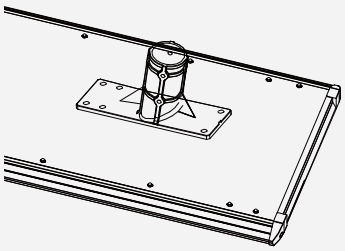
Product Model	DSL-60W	DSL-80W	DSL-100W
Wattage	60W	80W	100W
Outer box (L*W*H)	1290×490×170mm (50.79"×19.29"×6.69")	1600x490x170mm (62.99"x19.29"x6.69")	1900×490×170mm (74.80"×19.29"×6.69")
Q'ty/Ctn	1pc	1pc	1pc
N.W./Ctn	11.42kg (25.18lbs)	14.45kg/31.86lbs	17.13kg (37.77lbs)
G.W./Ctn	13.45kg (29.65lbs)	16.95kg/37.37lbs	19.83kg (43.72lbs)
Remarks	0.2M cable	0.2M cable	0.2M cable

INSTALLATION

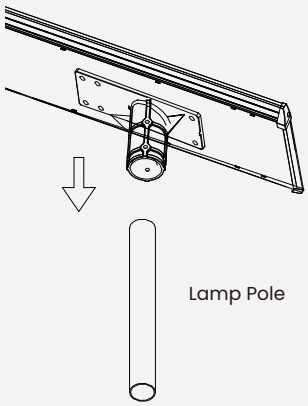
1. After removing the lamp, install the sleeve onto the lamp.



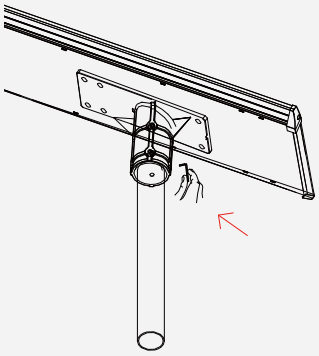
2. Tighten the screws after the sleeve is installed.



3. Align the lamp with the pole, insert it, and adjust the angle of the lamp.



4. After adjusting the lamp to the correct angle, tighten all screws, raise the lamp pole, and complete the installation.



ORDER INFORMATION

DSL-YY-YY-Y

1 2 3 4 5 6

1 DSL All in One Solar Light

2 Wattage

60W	60W
80W	80W
100W	100W

3 Color Temperature

3000-6000K	3000-6000K Options

4 Voltage

(Blank)	12V

5 Optics

(Blank)	114°

6 Control

(Blank)	Microwave Sensor
C	Control Module

WARRANTY PERIOD
3/5 YEARS WARRANTY OPTIONS

WARRANTY COVERAGE
LED LIGHT SOURCE, DRIVER

24h
AFTER-SALES SERVICE COMMITMENT
24H RESPONSE

72h
AFTER-SALES SERVICE COMMITMENT
72H RESOLUTION/REPLACEMENT