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150W-S4-C

150W-S4-C Solar Powered LED Flood Light

5962 Lumens

Mounting Hight 4m to 9m

4 x LED Light Source

150Wp Polycrystalline Panel

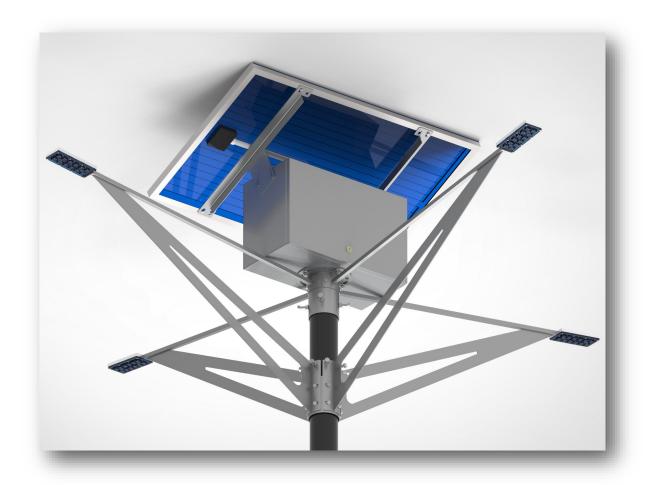
Mounting Pole Diameter 101mm

100Ah 12V Carbon

37.5W Power Consumption

Wide Area Flood

>3000 Batter Cycles





MECHANICAL

Fully Adjustable Solar Panel Design Adjustable orientation for LED light IP Rated 52 Powder Coated Dove Gray



LED CONFIGURATION

LUMILEDS V2
4 x (12) High Power CHIPS

Nominal CCT/Color 5650K Cool White
Typical CRI 70

Typical Luminous Flux @350mA
159Im per Watt

Combination Spot and Flood



BATTERY

100Ah@20hr-Rate to 1.75V per Cell @25 degrees C Weight 5.5kg >1500 Cycles

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Designed System Performance

Power Consumption per Hour 37.5W

Total Available Lumens 5962 Lumens

Operation Dusk to Dawn (Designed for 14 hours during Winter)

Dip Switch Selectable Factory Set Dusk to Dawn

Mapped Current output to LED 3125mA

Used amps during the night (10 Hours) 31.25A

50Ah@20hr Rate to 1.75V per cell @25° C 100Ah

Depth of discharge of battery per night 31.25%

Working Redundancy no Sun 6 Days

Number of Cycles >3000

Battery Replacement >8 Years

Operation Temperature -20°C—50° C

Recharge Time 3.75 Hours

MPPT Charge Algorithm YES

Undervoltage Cut Out YES

Overvoltage Cut Out YES

LED Protection YES

Short Circuit Protection YES

Enclosure

IP Rating 52

Finishing Powder Coated Dove Gray

Solar Panel Orientation Fully Adjustable

Solar Degrees Adjustment Adjustable from 15° - 37° Degrees

Weight Of Complete Unit 30kg

Dimension 1480mmx670mmx500mm

Maximum Pole Diameter 101mm

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Enclosure

Fixing on Pole Slide over collars

Fixing on Pole 6 x 12mm Bolts (4 x Collar below Battery 2 x Arm)

Recommended Mounting Hight 6-9 Meters

Internally hosted controller Controller loose Item serviceable

Weight Of Complete Unit 20kg

LED USED

Manufacturer LUMILEDS-V2

Quantity 4 x LED Light Source made up out of (12 x LED's)

Nominal CCT/Colour 5650K Cool White

Typical CRI 70

Typical Luminous Flux(Im) @350mA Forward Current +_1W 159lm per Watt

Machined Profile Cooling Solid Aluminium 12mm Block

Lens Type Used Combination of Spots and Wide Lenses

Battery

Manufacturer Ritar

100Ah Capacity

Weight 31Kg

AGM GEL Type

Cycle Life in Relation to Depth of Discharge >1500 @ (0.2C Charge / 0.2 Discharge

Nominal Voltage 12.8V

Max Voltage 14.6V +_ 1.0V

10V +_ 1.0V Min Voltage

230x127x191(mm) **Dimensions**

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150W-S4-C Solar Powered LED Flood Light

Solar Panel

General Characteristics

Cell Polycrystalline solar cell 156 x 156mm

Number of Cells (Connections) 36(4x9)

Panel Dimensions 1480 x 670 x 35mm

Weight 11.6 kg

Connectors and Cables Connectors and 1m Cables

Thermal Conditions

Normal Operating Cell Temperature 800W/m^2 Irradiance,20°C,AM=1.5 48°C+_2°C

Power Temperature Coefficient -0.5%/K

Current Temperature Coefficient 0.035%/K

Voltage Temperature Coefficient -0.37 MV/K

Limits

Operating Temperature -40°C to 85°C

Maximum System Voltage 36V

Electrical Performance at STC

Maximum Power 160Wp
Power Tolerance 0/+5Wp
Maximum Power Voltage 18V
Maximum Power Current 8.05A
Open Circuit Voltage 22.2V
Short Circuit Votage 6.72A

Standard Test Conditions 1000W/m^2 irradiance,25°C and AM = 1.5

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Light Distribution

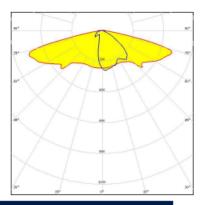
Type II/III (long) beam for very wide pole to pole distances. Ideal for pedestrian walkways and residential road lighting. (EN13201 P-classes)



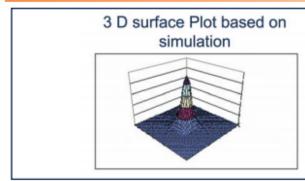
LED LUXEON V2
FWHM Asymmetric
Efficiency 94 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White

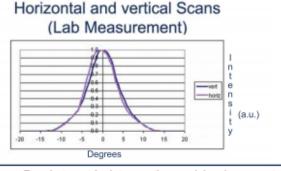
SPOT LENS Design

Required components:



PHOTOMETRIC DATA FOR SPOT VERSION





IES files available at www.dialight.com

For photometric data on other models, please contact factory

ORDERING INFORMATION

BASE LENSES		
Dialight P/N	Description	Degree*
OPC1-1-SPOT	Spot Base Module for LUXEON Rebel	5°
OPC1-1-SDIF	Diffused Base Module for LUXEON Rebel	7°
OPC1-1-MDIF	Medium Diffused Base Module for LUXEON Rebel	10°
OPC1-1-OVAL	Oval Base Module for LUXEON Rebel	8° X 25°
OPC1-1-WIDE	Wide Diffused Base Module For LUXEON Rebel	20°
*All angles refer to half divergence		