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Phone: +27 71 220 2208
Email: info@solarlight.co.za

200W-F3-L

200W-F3-L Solar Powered LED Flood Light

8000 Lumens

Mounting Hight 4m to 9m

3 x LED Light Source

100Wp Polycrystalline Panel

Mounting Pole Diameter 101mm

50Ah 12V Lithium

40W Power Consumption

Wide Area Flood

>5000 Batter Cycles





MECHANICAL

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



LED CONFIGURATION

SEOUL Z5M
3 x (21) High Power CHIPS

Nominal CCT/Color 5650K Cool White
Typical CRI 70

Typical Luminous Flux @350mA
200Im per Watt

Combination Spot and Flood



BATTERY

PHASOR
12.8V
50Ah (0.2C Discharge
Weight 1kg
>5000 Cycles (0.2C Charge / 0.2C Discharge)

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Designed System Performance

Power Consumption per Hour 40W

Total Available Lumens 5000 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) 31.250A

Internal Battery 50Ah

Depth of discharge of battery per night 62%

Working Redundancy no Sun 2 Day

Number of Cycles >5000

Battery Replacement >5 Years

Operation Temperature -20°C—50° C

Recharge Time 3 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 20kg

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 4—9 Meters

Internally hosted controller Controller Controller

Weight Of Complete Unit 20kg

LED USED

Manufacturer SEOUL Z5M

Quantity 3 x LED Light Source made up out of (21xLED's)

Nominal CCT/Colour 5650K Cool White

Typical CRI 70

Typical Luminous Flux(lm) @350mA Forward Current +_1W 200lm per Watt

Cooling Solid Aluminium 12mm Block Machined Profile

Lens Type Used Combination of Spots and Wide Lenses

Battery

Manufacturer PHASOR

Capacity 50Ah (0.2C) Discharge

Weight 5kg

Type Lithium (Lithium Iron Phosphate)

Cycle Life in Relation to Depth of Discharge >5000 @ (0.2C Charge / 0.2 Discharge

Nominal Voltage 12.8V

Max Voltage 14.6V +_ 1.0V

Min Voltage 10V +_ 1.0V

Dimensions 181x76x170(mm)

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Solar Panel

General Characteristics

Cell Polycrystalline solar cell 156 x 156mm

Number of Cells (Connections) 36(4x9)

Panel Dimensions 1005 x 670 x 35mm

Weight 12.0 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 Power200WpPower Tolerance0/+5WpMaximum Power Voltage18VMaximum Power Current10.56AOpen Circuit Voltage22.2VShort Circuit Current11.06A

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

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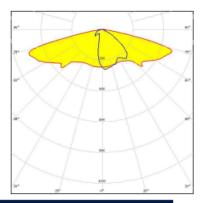
Light Distribution

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

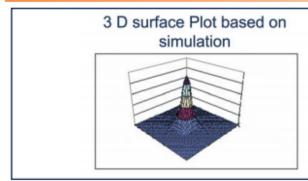


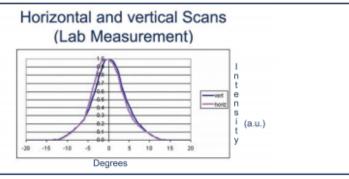
LED LUXEON V2
FWHM Asymmetric
Efficiency 94 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:

SPOT LENS Design



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		