





MECHANICAL

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



LED CONFIGURATION

SEOUL Z5M 4 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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200W-F4-L

200W-F4-L Solar Powered LED Flood Light

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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Fixing on Pole

Fixing on Pole

Recommended Mounting Hight

Internally hosted controller

Weight

Slide over collars

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

4–9 Meters

Controller loose Item serviceable

Of Complete Unit 20kg

LED USED

Manufacturer		
Quantity		
Nominal CCT/Colour		
Typical CRI		
Typical Luminous Flux(Im) @350mA Forward Current +_1W		
Cooling Solid Aluminium 12mm Block		
Lens Type Used		

SEOUL Z5M

4 x LED Light Source made up out of (21xLED's) 5650K Cool White

70

200lm per Watt

Machined Profile

Combination of Spots and Wide Lenses

Battery

Manufacturer
Capacity
Weight
Туре
Cycle Life in Relation to Depth of Discharge
Nominal Voltage
Max Voltage
Min Voltage
Dimensions

PHASOR 50Ah (0.2C) Discharge 5kg Lithium (Lithium Iron Phosphate) >5000 @ (0.2C Charge / 0.2 Discharge 12.8V 14.6V +_ 1.0V 10V +_ 1.0V 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 Power	200Wp
Power Tolerance	0/+5Wp
Maximum Power Voltage	18V
Maximum Power Current	10.56A
Open Circuit Voltage	22.2V
Short Circuit Current	11.06A

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

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200W-F4-L

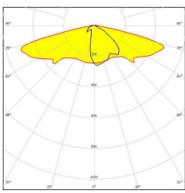
200W-F4-L Solar Powered LED Flood Light

Light Distribution

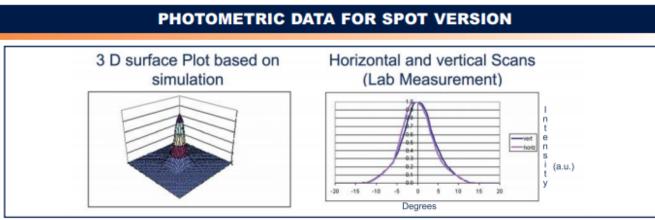
Type II/III (long) beam for very wide pole to pole distances. Ideal for pedestrian walkways and residential road lighting. (EN13201 P-classes)

LUMILEDS

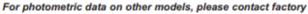
LEDLUXEON V2FWHMAsymmetricEfficiency94 %Peak intensity0.7 cd/lmLEDs/each optic1Light colourWhiteRequired components:



SPOT LENS Design



IES files available at www.dialight.com



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		