

12M Solar LED High mast 4 x 100w High power LED floods

SFSOLHM4X100LI / SFSOLHM2X200-LI

Design supplied with
4 x 100w / 2 x 200w Highpower LED floods
4 x 395w panels

**The SOLM 12M Solar LED high mast design is a
robust and durable Solar lighting solution for
those areas which require high quality
components in overall design
and performance**

**This model is supplied with 4 x 100w Lumileds
5050 SMD LED flood with a lumen output of
160lm per watt with 4 fittings to single, double
and all forward facing applications for specific
field or area lighting**

**Lighting parameters are programmed for
13 hour runtime**

**Light distribution is supplied with 90 degree with
Smart PC lenses, designed with smart beam optics
and other lens configurations are available**

**The battery is designed to cater for 14 hours with
2 reserve factor nights with Smart mode Solar
controller MPPT Technology**

**The batteries require 5 hours to replenish its
reserves**

**Lithium LIFEPO4 Batteries with between 2000 -
3000 life cycles with an average life span of to 8 -
10years**

**14m Mast with 2m stubby design - 12m Mounting
Height or 10m MH optional**



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LIGHT	Power	4 x 100w
	LED	Philips 5050 SMD
	IP Rating	IP66
	Flux @ CCT 5000K	6 x 16000Lm
	CRI - Colur Rendering Index	70
	Optics	PC lens with smart beam
	Average Lifespan	80 - 100 000 hours
	Operating Temperature	- 30 > + 50 Degrees
	Mounting Height	12 meter above ground level
	Light Distribution	90 degree Smart optical
	Lumen per WATT	160 Lumen / watt
	Pole to pole distance	80-95 meters
BATTERY	Lithium	Life PO4
	Voltage	2 x 25.6v
	Watt Hours	2 x 4224 Wh - 165Ah
	Lifespan	2000-3000 Cycles
SOLAR PANEL	Power	2 x 395w / Pair
	Voltage	36.58V
	Maximum current	10.79 Amp
CONTROLLER	Charging method	2 x Smart Mppt 20A
	Dimming Parameters	Smart mode - Medium
	Day night sensor	Intelligent integrated
	Lighting parameters	4Hrs 100%,7Hrs 70%, 2Hrs 80%
	Electrical parameters	Temperature compensation
		Overheating overcharging and over discharging protections
BATTERY CRADLE AND ENCLOSURE	Aluzinc steel cabinet and powder coated Manufactured in an SABS approved facility with ISO 9001	
POLE	Galvanized 12m pole with 2m stubby	
WARRANTY	5 years on all components - option to extend	

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This design allows for each solar panel to be rotated 360 degrees on its mounting brackets to ensure all solar panels are facing in the North position for optimal sunshine

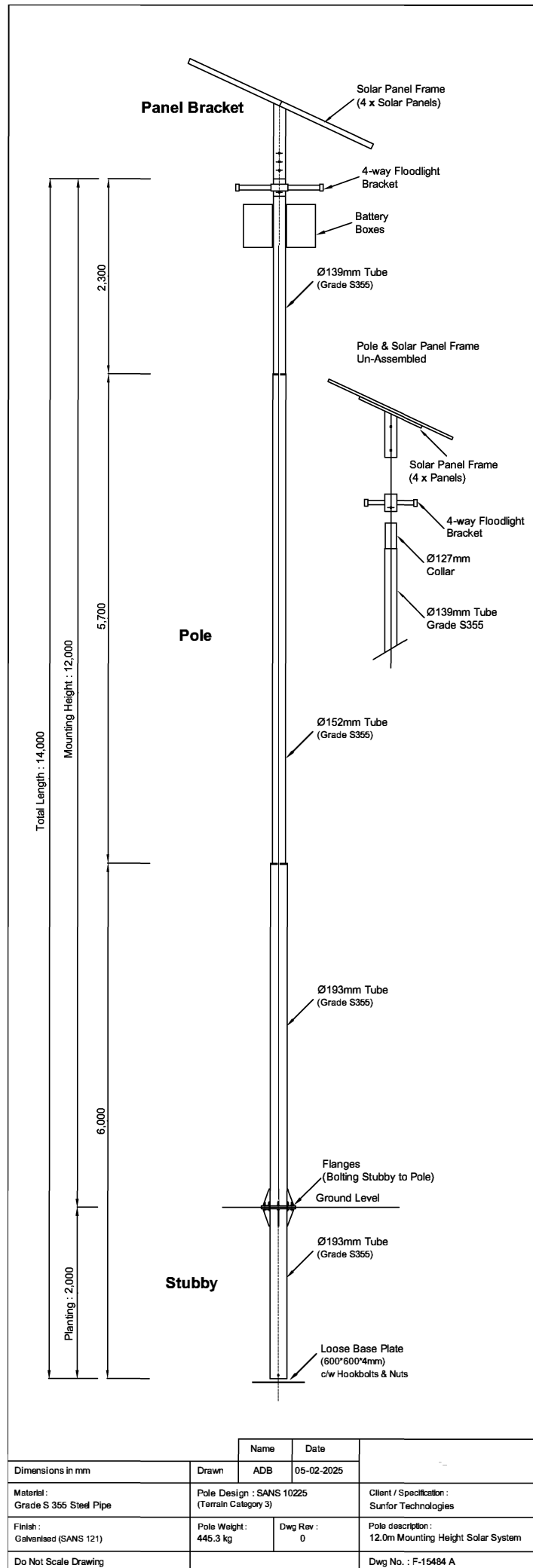
Each mast consists of 4 individual 4 x 100w Solar LED Flood Lights which are run in pairs of 2 lamps or individually if 2 x 200w

This is too ensure that should a problem arise for whatsoever reason on a single pair the other unit will remain operational until that single pair can be serviced or repaired

Solar panels will all be secured at a 30 degree with solar panel and Aluminum channels

Image Illustration

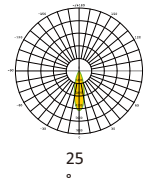




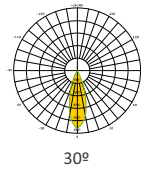
**BATTERY BOX CONFIGURATION
CAN BE ADJUSTED TO HAVE THE
CABINETS ABOVE THE LED
LUMINAIRES**

		Name	Date	
Dimensions in mm	Drawn	ADB	05-02-2025	
Material: Grade S 355 Steel Pipe	Pole Design : SANS 10225 (Terrain Category 3)		Client / Specification : Sunfor Technologies	
Finish : Galvanised (SANS 121)	Pole Weight : 445.3 kg	Dwg Rev : 0	Pole description : 12.0m Mounting Height Solar System	
Do Not Scale Drawing				Dwg No. : F-15484 A

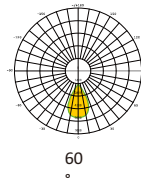
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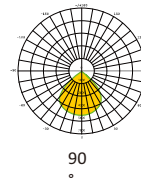
25°



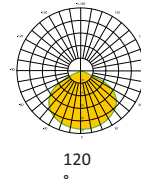
30°



60°

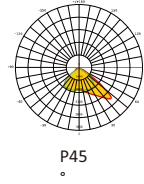


90°

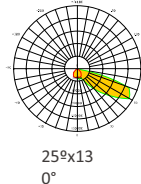


120°

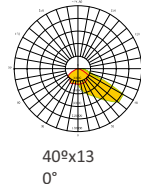
Asymmetric Optics



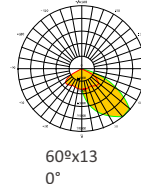
P45



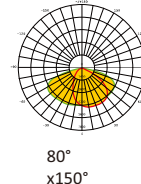
25°x13°



40°x13°



60°x13°



80°
x150°



160lm/W
System Efficacy



5 Year
Warranty



IK09
Rated



IP66
Rated

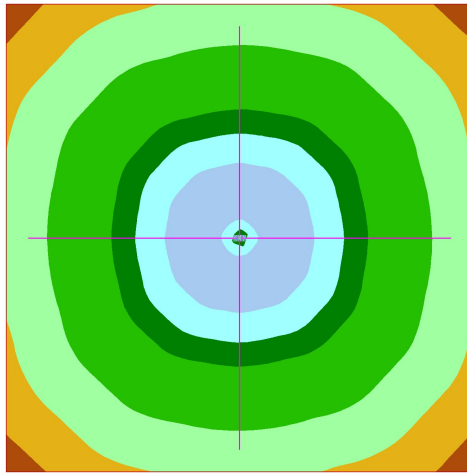
Luminaire data

Luminaire efficiency	: 99.8719%
Luminaire efficacy	: 147.7 lm/W
Classification	: A50 ↓100.0% ↑0.0%
CIE Flux Codes	: 64 93 99 100 100
UGR 4H 8H	: 23.5 / 22.7
Power	: 102.2 W
Luminous flux	: 15094.6 lm

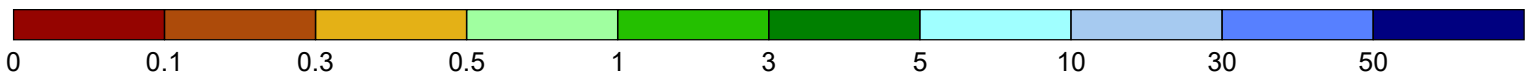
Dimensions : 250 mm x 337 mm x 106 mm

Equipped with

Quantity	: 1
Designation	: LUMILED5050
Colour	:
Luminous flux	: 15114 lm



0 10 20 30 40 50 60 70 80 90 100 x [m]



SOLM 12M Solar LED High mast - 6 x 100w High power LED floods

3D luminance, View from above

