NIKKON®

Solar

APPLICATIONS

- Pathway
- Parks
- Car Park
- Service Roads
- Temporary Lighting
- Construction Sites etc.

Remote Setting

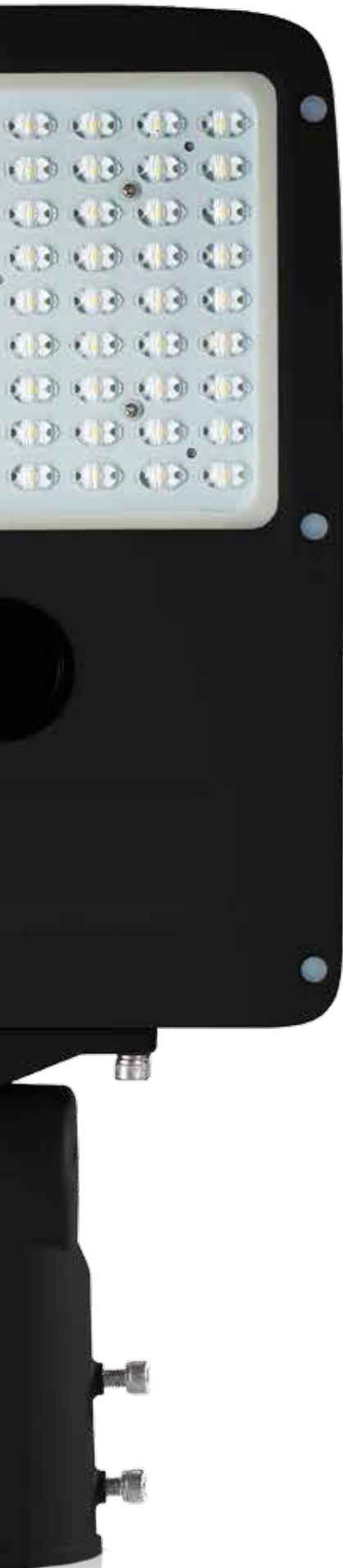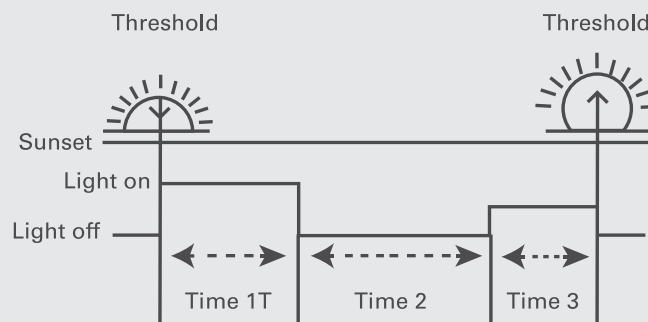**MC4 Plug-in Connection**

Built-in Battery

12Hrs/Day 130LM/W

KEY FEATURES

- Aesthetic appearance, small size and light weight, easy to install.
- Battery, solar controller and sensor are built-inside the luminaire.
- Quick and easy connection. MC4 male and female plugs directly to 18V solar panel.
- 100% energy saving, generated from solar. No mains power and cabling required.
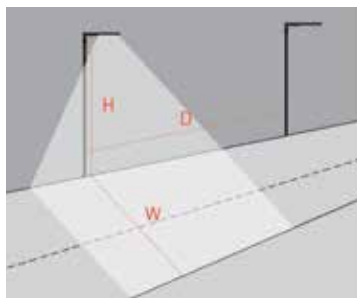
Working Mode & ON and OFF Time

The light turned on at dusk with a pre programmed setting function and continues to work till dawn. The ON and OFF functions are controlled by the built-in charge controller with light sensitive timings. At sunset NTTV (Night Time Threshold Voltage) goes less than 5 volts from the solar panel, the lights turned ON. In the morning the DTTV (Day Time Threshold Voltage) from the panel reaches 6 volts the lights turns OFF.

The system also comes with a manual switch for manual operation for testing purposes.

Operation Method

1. Once the installation is complete, plug the MC4 connector in the light to the solar panel
2. The power button on the light fixture to the ON position to make the light turn on automatically after sunset (Lighting mode is set from dusk to dawn mode as default by factory)
3. The Smart Solar LED light is now ready for use
4. You can also use the remote control to change the lighting modes or brightness as required. UNHCR model does need one as there is only one setting applicable for this model
5. Press the power button to the OFF position to TURN OFF the light, the light will stop working, during maintenance and transportation
6. Do not remove or dismantle the MC4 connectors and try to plug in the light as the polarity can go wrong
7. Do not open the light fixture by unauthorized persons, this can affect the IP rating of the fixture and void the warranty
   - There is a ONE minute delay for ON / OFF functions
   - The light will turn on only after one minute once the power on button is pressed
   - The light will turn off after one minute once the panel is disconnected or at sunset

Any further questions, please contact us...
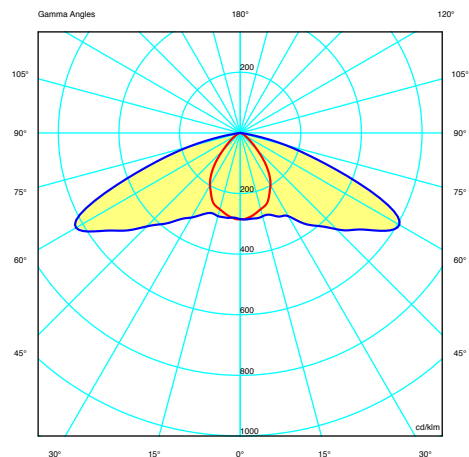
H = The vertical height of the light pole and the ground

W = Irradation area road width

D = The distance between two street lights

	Power (W)	H (m)	W (m)	D (m)	Tilt (degrees)	Compliance AS1158.3.1
1		5		20.1	5	P3
2	30W	6	3	24	5	P3
3		5		50	5	P4
4		6		56.5	5	P4

C Halfplanes

180.0	————	0.0
270.0	————	90.0

**NOTE: The simulations are for reference only. For actual simulation calculations and more pathway / area lighing applications, please contact our local representatives.

Technical Specification
Solar Street Light

1	Light Design	The luminaire comes with an inbuilt lithium battery and MPPT charge controller. The system is more efficient with more output with longer battery backup comparatively to all in one solar lights.
2	Material	Die cast aluminium body. Power coated in grey or black.
3	Rated Power	30W (also available in 15W and 60W)
4	CRI	82
5	Light Emitting Diodes (LED)	Lumileds 3030
6	Light Output	140º - 70º degree beam angle
7	Optics	T5L1 Lens
8	Operation-Working Mode	12 hours. 2 day autonomy based on economy mode (1st 6 hours 100%, next 6 hours 50%)
9	Luminous Lux	125 lumen / watt
10	CCT	4000K
11	IP Rating	IP67
12	Battery Type	Lithium (NiCoMn) O2 battery / LIFEPO04 battery
13	Solar Panel	MONO Crystalline cell 70W, 18VDC, 3.9A
14	Weight	9.5kg
15	Life Span	50,000 hours for LED chip, 1000 cycles for the Li (NiCoMn) O2 battery
16	Warranty	3 year replacement warranty
17	Certifications	RoHS, CE FCC, IC LM79, LM82, TUV (Solar Panel) RCM
18	Working Temperature	-10ºC to 55ºC
19	Fixation System (Optional)	Material: Hot-dip galvanized and powder coated
20	Accessories (Optional)	Solar panel, bracket for mounting structure with screws, light pole with light arm and anchor bolts
21	Sensor Type	Microwave human inductive. Setting can be done by remote controller. Refer to user manual.

Ordering Information

Part Number	Product Description
NKS-FL-30-40-BK	NIKKON Solar Floodlight 30w 4000K black colour
NKS-SL-30-40-BK	NIKKON Solar Street Light 30w 4000K black colour

Note:

• Inclusive of light fitting, Solar PV panel, remote control device, solar panel
  frame and mounting hardware to suit 76mm pole top
• Optional accessories - Pole and Spigot adaptor
• Also available in other wattages

Please call us for a quote and project site assessment.

OFFICE AND SHOWROOM

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