NTE Sistemas LED SOLAR KIT

NTE LED SOLAR KIT Series
100% Energy savings with maximum respect for the environment.
The NTE Solar Series includes state-of-the-art LED technology, a programmable lighting system and light intensity control. Being able to reach a height of 7 meters, it is the ideal option for rual roads, landscape areas, parking areas, construction yards, bike lanes, pedestrian walks etc. With the possibility of including a presence detector, for a minimum light polution, especially in isolated or low traffic areas, maintaining the safety of pedestrains at all times.
Sustainanability, fully renewable clean energy along with recylable luminaires.
Efficiency compability, any of the Efficiency Road Luminaires can be turned into solar and can be combined with the remote management system.
100% savings, with programmable power and an option to include a motion detector for minimal light pollution.

Repair Management Nederland B.V.
More management less firefighting

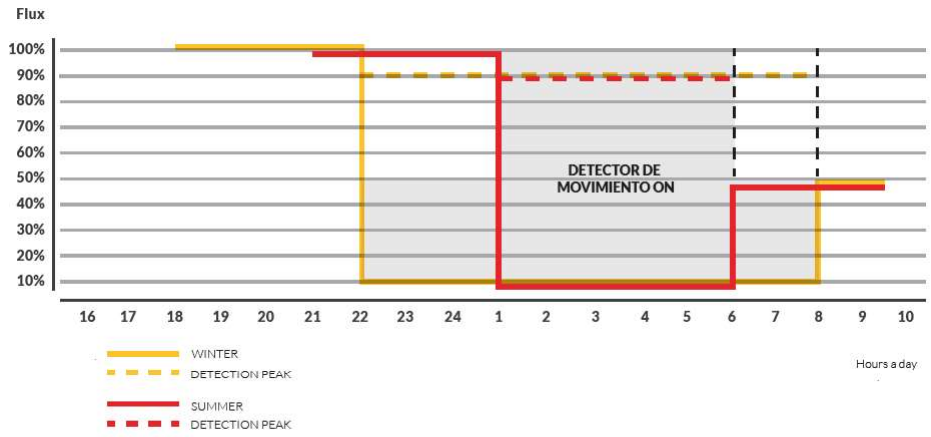
The complete Solar Kit contains of a Solar Panel, a Lithium-Ion battery of high capacity with low weight, great durability (minimum of 5 years useful life) and IP65 protection. In addition it includes a charge controller and the option to install a motion sensor. Compatible with the High Efficiency Road Luminiares or PM-PRO floodlights, with simple mounting on any mast or standard column and up to 4 days of operation depending on the model.

Article No.	Description	Battery Wattage	Wp Panel	System Voltage	Loading Time*
83NTE0001	Solar Kit XS	256	45	12	<7
83NTE0002	Solar Kit S	400	80	12	<7
83NTE0003	Solar Kit M	512	150	12	<6
83NTE0004	Solar Kit L	925	210	24	<6
83NTE0005	Solar Kit XL	1240	375	24	<6
83NTE0006	Solar Kit XXL	1880	375	24	<6

* Estimated calculation for an average irradiance equal to or greater than 1000 W/m2

A = Solar Photovoltaic Panel B= Solar LED Driver C= Batteries D= LED Lumiaire E= Motion Sensor (Optional)

Regulation profile with motion sensor
The system can incorporate a microwave motion sensor that reduces light intensity and consumption in periods of time when no movement is detected in the zone.
The luminaire will turn on when the solar radiation drops below a minimum value. When motion is detected, the light intensity will rise to a marked value, for a set period of time once detection ceases.
Below a standard example (We always recommend the unit with a motion sensor).



The luminair will switch on automatically when it does not exceed the minimum daylight.
The system starts according to the established scedule. In above example, the luminaire starts at 100% operation and after 4 hours it goes to 10% light with the action of the motion detector.
The motion detector can be set to 10% at the time of non-detection, which would rise to 90% after detecting presence with a courtesy time of up to 200 seconds.
In the example, the last hour is set to 50% without detection.
The luminaire will turn off automatically when it exceeds the minimum of daylight, not needing to complete the curve.

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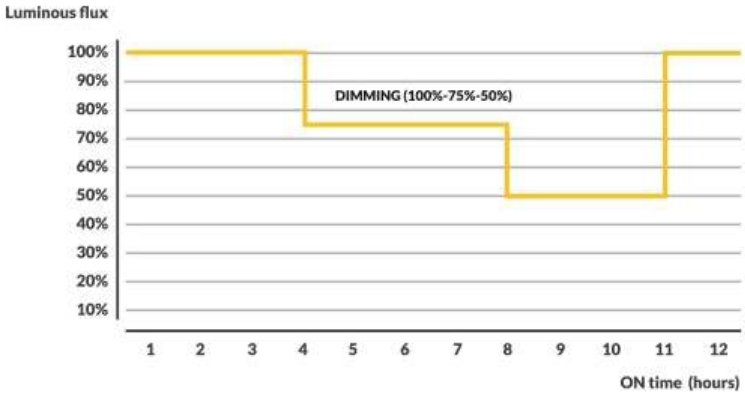
Regulation profile with motion sensor
In this case the system is scaled for a duration of more than two days with a charging time of less than 6 hours in the worst case.
The automatic summer-winter change adjust working hours at different levels of regulation.
The Controller Saving Mode allows automatic lighting adjustment under critical battery levels, if they occur.



The luminaire will turn on automatically when it does not exceed the minimum of daylight.
The system starts according to the established schedule. In the above example, the luminaire starts at 100%
operation and after 4 hours it goes to 75% light, 4 hours later it goes to 50% and at dawn it rise to 100% lighting.
This programming is optional, designed for a longer system life.
The luminaire will turn off automatically when it exceeds the minimum solar radiation, not needing to complete
the curve.

Saving mode
When the battery charge is below the critical charge point, the luminaire enters Saving Mode, gradually reducing the intensity, in order to avoid complete battery discharge.

All NTE Solar Kits will be calculated to the customer requirements. What is needed depend on location, installation height, required light output etc.
PAY ATTENTION:
Solar Panel must always installed higher than the light fitting.
The light must not illuminate the Solar Panel.

Compatible NTE Models with the Solar Kit
Streetlights: Pulsar, LEF, LEF-LT, Round, GEF. Floodlights: PM-PRO
As accessory there is a compact arm available the can be fitted to the kit and installed at top of the post.

PULSAR

LEF

LEF-LT

ROUND

GEF

PM-PRO