

Photovoltaic Systems:



Solar Home Systems



CONFIGURATION WITH 4 LAMPS 12VDC

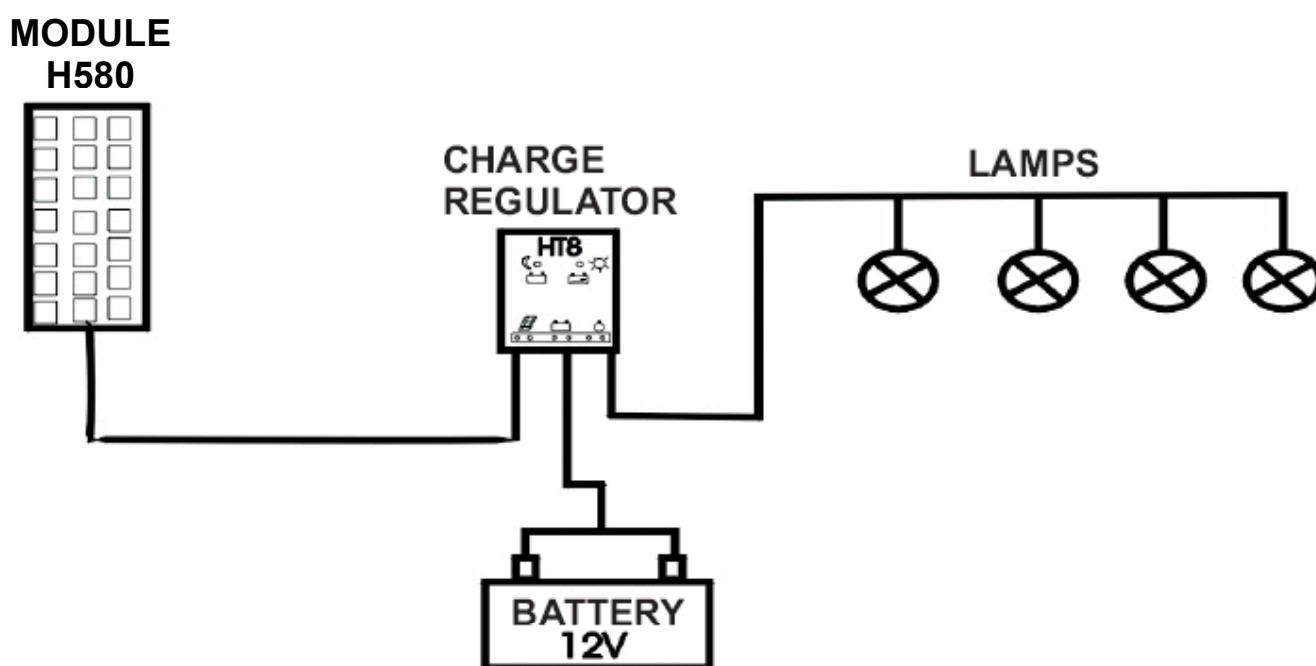
This is a lighting kit for remote houses, easy to install. This system is sized considering an insolation average value of 4 peak hours a day, to supply 4 low-consumption 12Vdc lamps LC7 and LC11, equivalent to incandescent bulbs of 40W and 60W, considering the no coincidence in the switching on of the lamps, according with the following criteria "N. of lamps x hours of operation": 1 x 8, 2 x 4, 3 x 3.

The battery capacity needed for an operating autonomy of 8 days under continuous bad weather conditions is 70Ah C100 - 12VDC.

SYSTEM CONFIGURATION:

Item	Q.ty
Module H580 - 50W	1
Charge regulator HT8	1
Lamp LC7	2
Lamp LC11	2

CONNECTION DIAGRAM



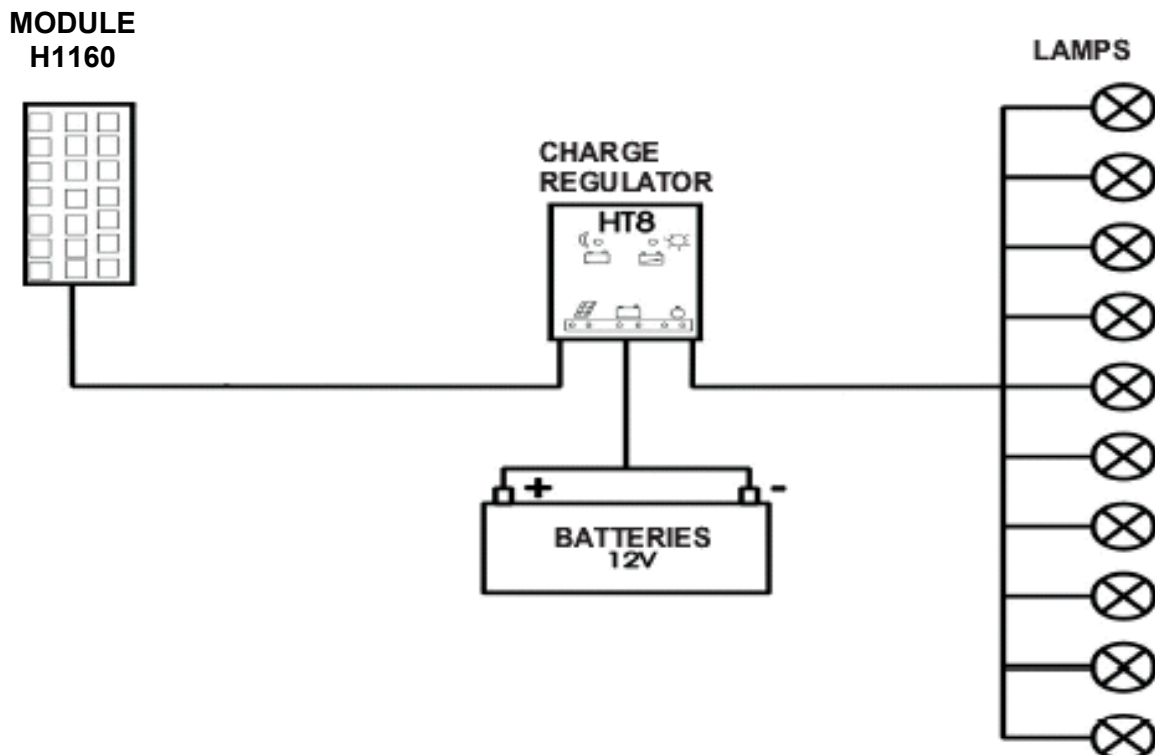
CONFIGURATION WITH 10 LAMPS 12VDC

This is a lighting kit for remote houses, easy to install. This system is sized considering an insolation average value of 4 peak hours a day, to supply 10 low-consumption 12Vdc lamps LC7 and LC11, equivalent to incandescent bulbs of 40W and 60W, considering the no coincidence in the switching on of the lamps, according with the following criteria "N. of lamps x hours of operation": 1 x 15, 2 x 7.5, 3 x 5, 4 x 4, 5 x 3, 6 x 2,5. The battery capacity needed for an operating autonomy of 8 days under continuous bad weather conditions is 180Ah - 12Vdc.

SYSTEM CONFIGURATION:

Item	Q.ty
Module H1160 - 90W	1
Charge regulator HT8	1
Lamp LC7	2
Lamp LC11	2

CONNECTION DIAGRAM



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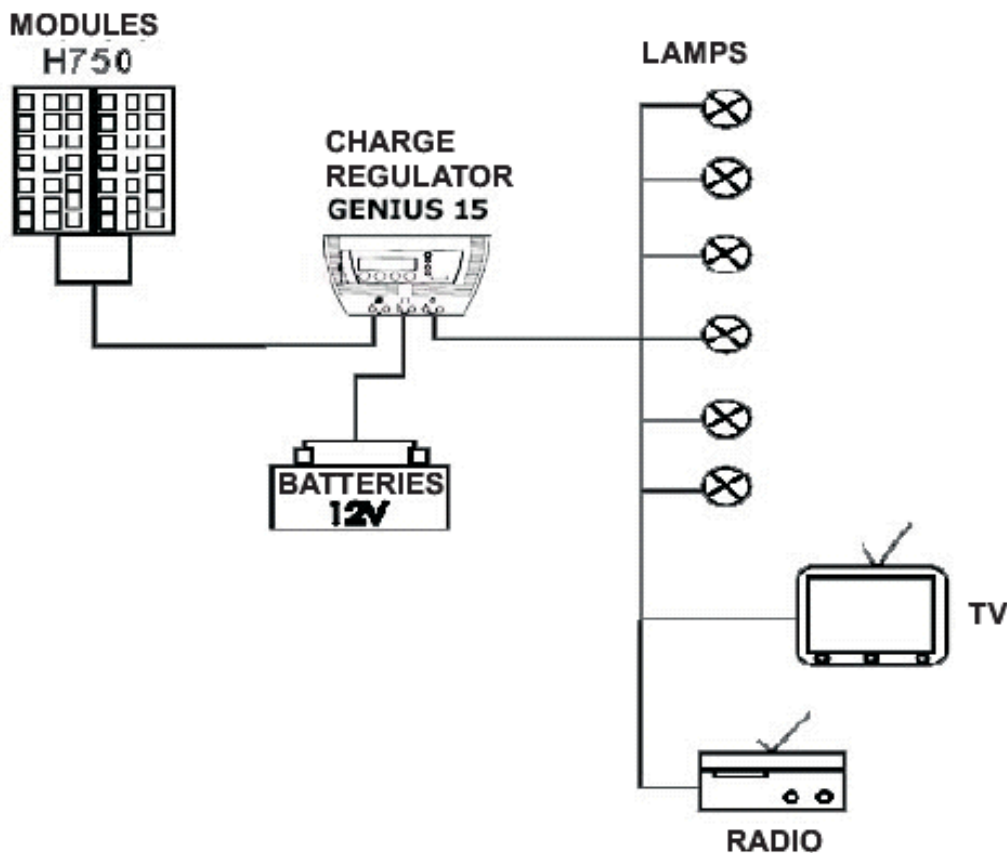
CONFIGURATION WITH 6 LAMPS 12 VDC, 1 TV AND 1 RADIO 12VDC

This system is sized considering an insolation average value of 4 peak hours a day, to supply one TV and one radio at 12Vdc, respectively for 4 and 3 hours a day, and 6 low-consumption 12Vdc lamps LC7 and LC11, equivalent to incandescent bulbs of 40W and 60W, considering the no coincidence in the switching on of the lamps, according with the following criteria "N. of lamps x hours of operation": 1 x 12, 2 x 6, 3 x 4, 4 x 3, 5 x 2, 6 x 1,5.
The battery capacity needed for an operating autonomy of 8 days under continuous bad weather conditions is 250Ah - 12Vdc.

SYSTEM CONFIGURATION:

Item	Q.ty
Module H750 - 75W	2
Charge regulator GENIUS 15	1
Lamp LC7	3
Lamp LC11	3

CONNECTION DIAGRAM



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CONFIGURATION WITH 6 LAMPS 12VDC AND 1 TV WITH VIDEORECORDER 230VAC

This is a lighting kit for remote houses, easy to install. This system is sized considering an insolation average value of 4 peak hours a day, to supply a 230Vac TV with video recorder for 3 hours a day, and 6 low consumption lamps 12Vdc LC7 and LC11, equivalent to incandescent bulbs of 40W and 60W, considering the no coincidence in the switching on of the lamps, according with the following criteria "N. of lamps x hours of operation":

1 x 14, 2 x 7, 3 x 5, 4 x 3, 5 x 2.

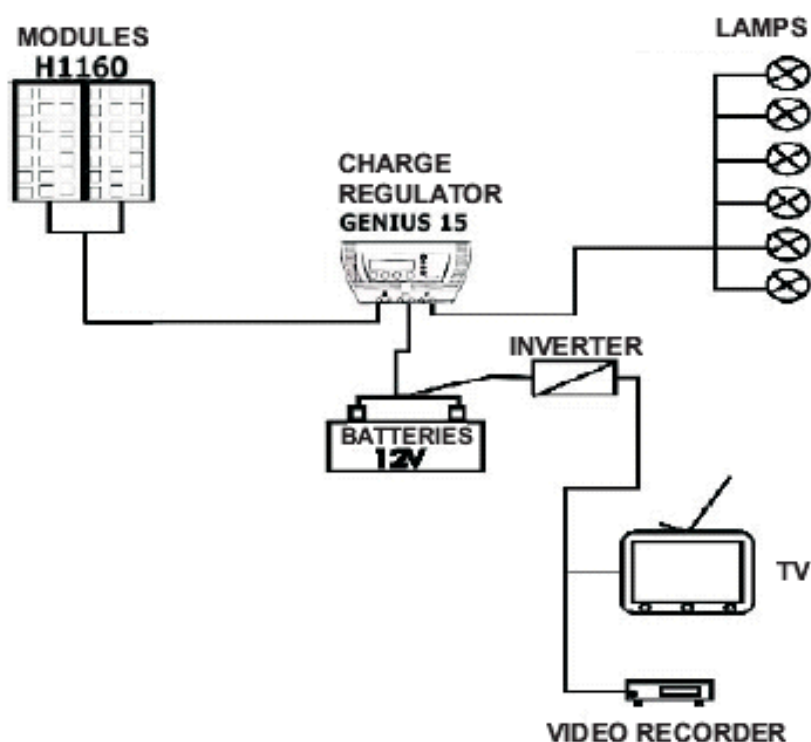
The battery capacity needed for an operating autonomy of 8 days of under continuous bad weather conditions is 300Ah - 12Vdc.

To power the system Helios Technology suggests the use of one 12Vdc-230Vac 500W inverter.

SYSTEM CONFIGURATION:

Item	Q.ty
Module H1160 - 90W	2
Charge regulator GENIUS 15	1
Lamp LC7	3
Lamp LC11	3
Inverter 12Vdc-230Vac 500W	1

CONNECTION DIAGRAM



CONFIGURATION WITH 6 LAMPS 24VDC AND 1 REFRIGERATOR 230VAC

This is a lighting kit for remote houses, easy to install. This system is sized considering an insolation average value of 4 peak hours a day, to supply a class A 80W-230Vac fridge and 6 low-consumption 24Vdc lamps LH12/24 and L15/24, equivalent to incandescent bulbs of 60W and 75W, considering the no coincidence in the switching on of the lamps, according with the following criteria "N. of lamps x hours of operation": 1 x 12, 2 x 6, 3 x 4, 4 x 3, 5 x 2, 6 x 2.

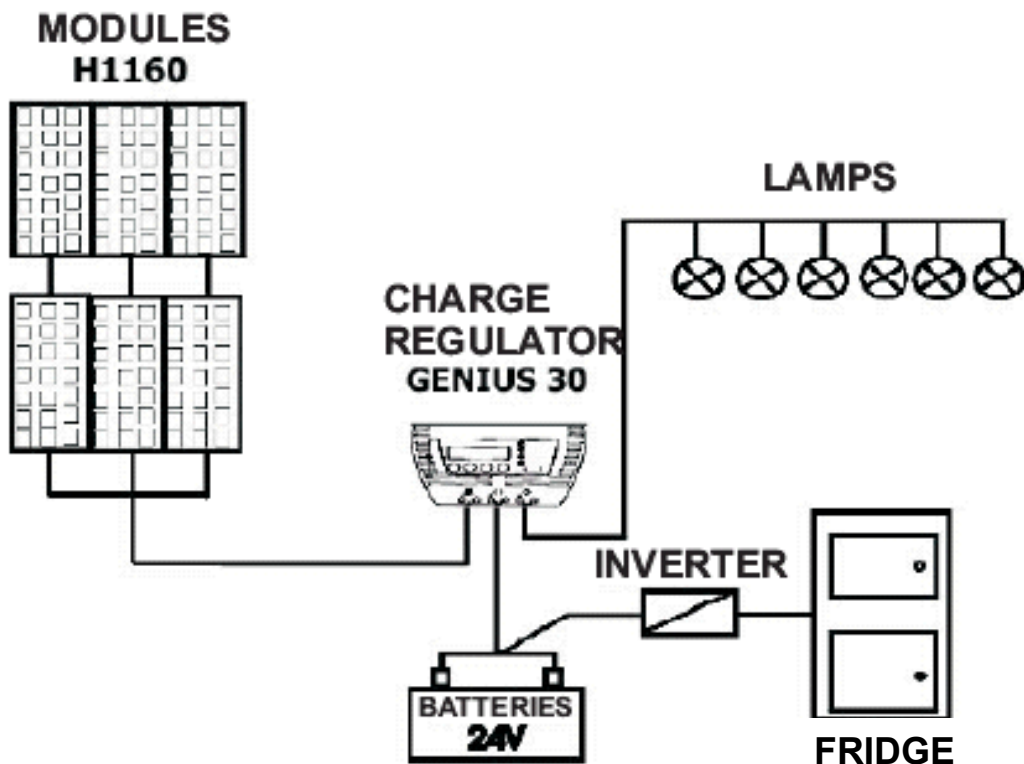
The battery capacity needed for an operating autonomy of 8 days under continuous bad weather conditions is 550Ah - 24Vdc.

To power the 60W – 230VAC fridge Helios Technology suggests the use of one 24Vdc-230Vac 1000W inverter.

SYSTEM CONFIGURATION:

Item	Q.ty
Module H1160 - 100W	6
Charge regulator GENIUS 30	1
Lamp LH12/24V	3
Lamp LH15/24V	3
Inverter 24Vdc-230Vac 1000W	1

CONNECTION DIAGRAM



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CONFIGURATION WITH 6 LAMPS 24VDC, 1 REFRIGERATOR AND 1 TV 230VAC

This is a lighting kit for remote houses, easy to install. This system is sized with an insolation average value of 4 hours a day, to supply a class A 80W-230Vac fridge, 1 TV 220Vac for 3 hours a day, and 6 low-consumption 24Vdc lamps LH12 and LH15 equivalent to incandescent bulbs of 60W and 75W, considering the no coincidence in the switching on of the lamps, according with the following criteria "N. of lamps x hours of operation": 1 x 12, 2 x 6, 3 x 4, 4 x 13, 5 x 2.5, 6 x 2.

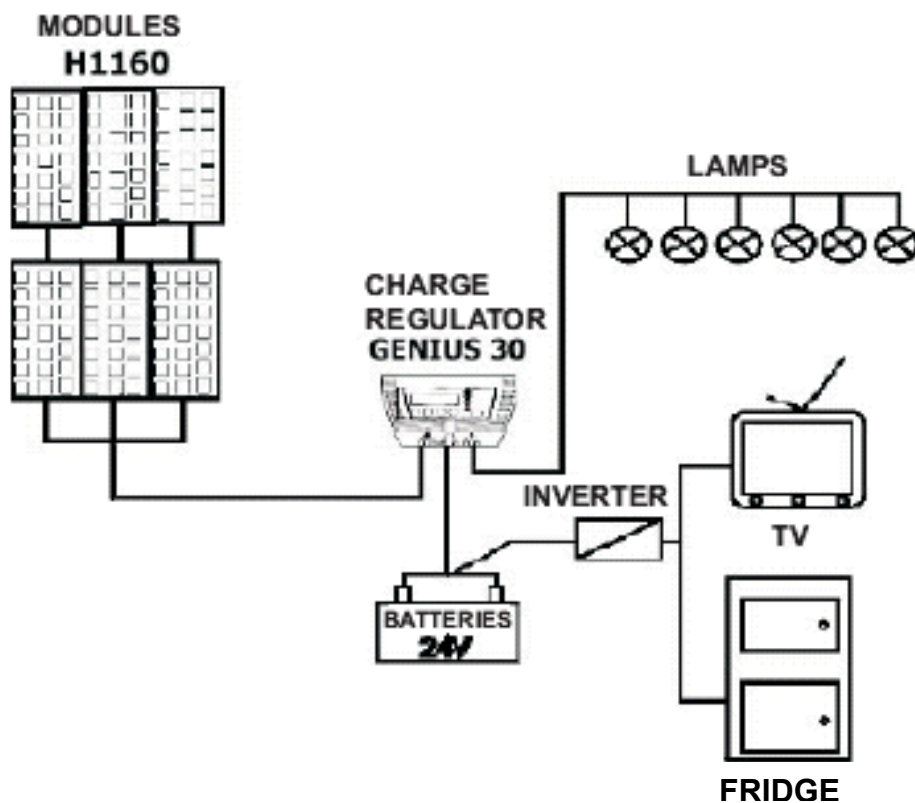
The battery capacity needed for an operating autonomy of 8 days under continuous bad weather conditions is 460Ah - 24Vdc.

To power the system Helios Technology suggests the use of one 24Vdc-230Vac 1000W inverter.

SYSTEM CONFIGURATION:

Item	Q.ty
Module H1160 - 100W	6
Charge regulator GENIUS 30	1
Lamp LH12/24V	3
Lamp LH15/24V	3
Inverter 24Vdc-230Vac 1000W	1

CONNECTION DIAGRAM



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