

# Solar 35W Hen House / Chicken Coop 12V LED Lighting Kit



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## Kit Contents

1 x 35 watt Solar Panel	(1)
1 x 7 ah Battery	(2)
2 x 72 LED Light Tube	(3)
1 x 7 amp Regulator	(4)
1x Battery Connection Cable	(5)
1 x Fixing kit	(6)
1 x Extension Cable	(7)
1 x 12 Volt Timer	(8)
1 x 2 Watt Connector Lead	(9)

**Please Note:** The duration of the LED on time will be determined by the placement of the Solar Panel and prevailing light conditions.  
The maximum duration of the 2 LED light on time in optimum conditions:  
Winter: 3 Hours per day.  
Summer: 6 Hours per day.

# Troubleshooting

Symptom	Cause	Action
Amber Charge LED not Illuminated on the Solar Charge Regulator	Bad Connection	Check Battery and Solar Panel connection
	Insufficient light	Check system during daylight hours
	Battery Fully Charged	Green High voltage LED illuminated
	Fuse blown	Replace fuse
Red Low Voltage LED illuminated on the Solar Charge Regulator	Battery is discharged	Switch lights off and recharge with Solar Panel or recharge battery with suitable mains charger
Lights or timer not working	Bad connection	Check the Battery connection and Solar Charge Regulator Battery and Load connections
	Battery is discharged	Low Voltage LED illuminated on the Solar Charge Regulator (See symptom Low Voltage LED Illuminated on the Solar Charge Regulator)
No charge from the Solar Panel	Bad connection	Check Solar panel connection
	Insufficient light	Check during daylight hours
	Solar Panel Placement	Site the Solar Panel (ideally) South facing and free from shade.
Switching Between Amber Charging and High Voltage	Fully charged Battery	No action needed

**Please Note:** The duration of the LED on time will be determined by the placement of the Solar Panel and prevailing light conditions.  
 The maximum duration of the 2 LED light on time in optimum conditions:  
 Winter: 2 Hours per day.  
 Summer: 6 Hours per day.

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# Installation Guide

## Connecting the Fixing Kit

1. Bolt each of the 4 brackets to the pre-drilled holes on the underside of the Solar Panel frame and fix securely to a flat surface.

## Extension Cable Connection

1.1 x Extension Cable is supplied. This can be used for extending the Solar Panel cable or extending the 72 LED Light Tube cable.

## Solar Charge Regulator fitting and indication

1. Mount the Solar Charge Regulator using the 3 mounting holes within 25 cm of the battery.
2. The Amber Charging LED will illuminate when there is sufficient light for charging.
3. When the Green High Voltage LED is illuminated the battery is fully charged.
4. The Red Low Voltage LED will illuminate and shut off the power to the load output of the Solar Charge Regulator when the charge state of the battery is low.

## Battery Connection Cable

1. Plug the Battery Connection Cable into the battery input of the Solar Charge Regulator. 2. Connect the battery using the Battery Connection Cable red crocodile clip to Positive (+) terminal and black crocodile clip to Negative (-) terminal of the battery

## Solar Panel Connection

1. Connect the Solar Panel to the Solar input of the Solar Charge Regulator.
2. If there is sufficient light the Amber charging LED will illuminate on the Solar Charge Regulator.
3. Place the Solar Panel in a location where it will not be shaded (ideally south facing).

## Timer Connection

Check labels on the timer leads and connect as labelled. For timer settings see the enclosed setting leaflet.

## Light Connection

1. Secure the 72 LED Light Tubes using the Brackets and screws supplied.
2. Connect the 72 LED Light Tubes leads to the 2 way lead. Then connect the single end of the 2 way lead to the lamp output lead on the timer.

**Please Note:** The duration of the LED on time will be determined by the placement of the Solar Panel and prevailing light conditions.