

# 10W Solar Street Light Module (Boost Technology)

## Features

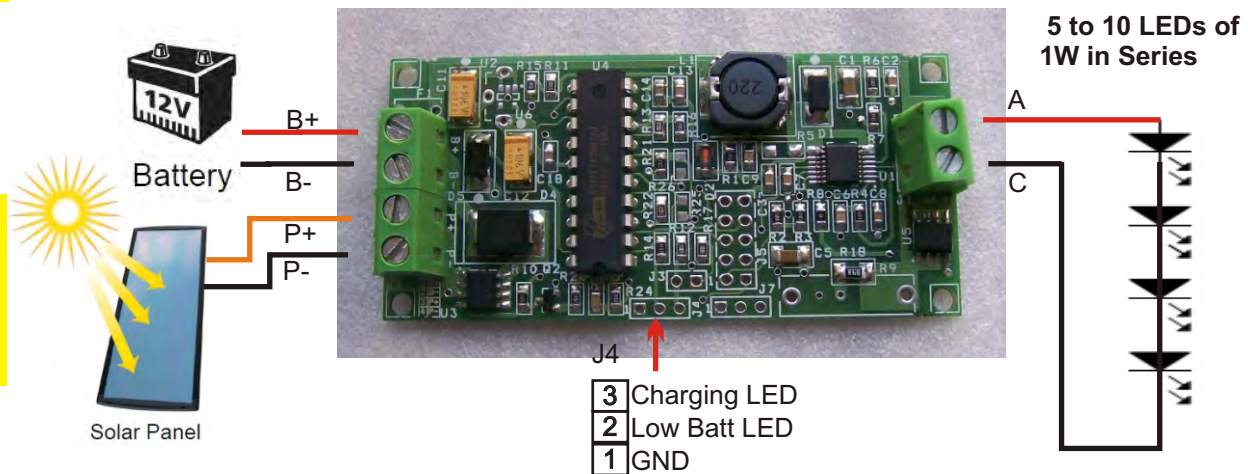
- ❑ Microcontroller based solutions
- ❑ More than 86% efficiency
- ❑ No load current is less than 3mA
- ❑ Dusk to Dawn operation which makes this unit completely autonomous
- ❑ Proprietary charging algorithm to optimally charge battery to maximize solar power utilization
- ❑ Supports solar panel up to 50W\*
- ❑ Support 12V battery up to 42Ah
- ❑ Board size is 75mm x 35mm x 20mm

## Protections

- ❑ Soft Start
- ❑ Reverse battery
- ❑ Battery Overcharge
- ❑ Battery Undercharge
- ❑ Over Voltage
- ❑ Over Current
- ❑ Thermal Overload
- ❑ Short Circuit (Optional)

\* Under standard temperature conditions

\*\* Specification are subject to change without notice



**NEW**

# 10W Solar Street Light Module (Buck Technology)

## Features

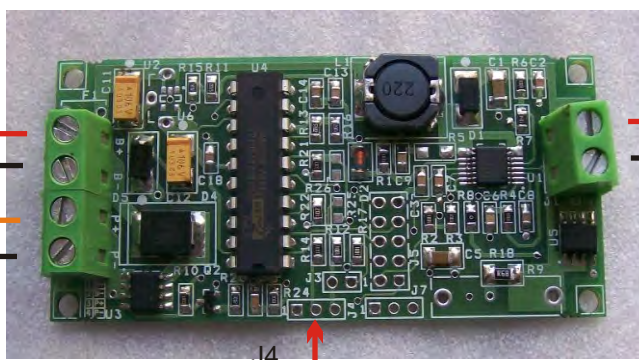
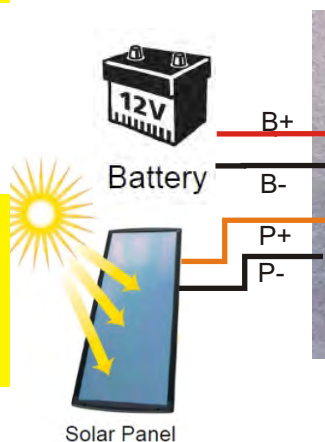
- ❑ Microcontroller based solutions
- ❑ More than 86% efficiency
- ❑ No load current is less than 3mA
- ❑ Dusk to Down operation which makes this unit completely autonomous
- ❑ Proprietary charging algorithm to optimally charge battery to maximize solar power utilization
- ❑ Supports solar panel up to 50W\*
- ❑ Support 12V battery up to 42Ah
- ❑ Board size is 75mm x 35mm x 20mm

## Protections

- ❑ Soft Start
- ❑ Reverse battery
- ❑ Battery Overcharge
- ❑ Battery Undercharge
- ❑ Over Voltage
- ❑ Over Current
- ❑ Thermal Overload
- ❑ Short Circuit (Optional)

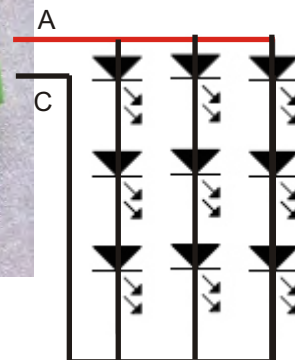
\* Under standard temperature conditions

\*\* Specification are subject to change without notice



- J4
- 3 Charging LED
  - 2 Low Batt LED
  - 1 GND

9 LEDs of 1W in  
Series / Parallel  
Combination



# 20W Solar Street Light Module

## Features

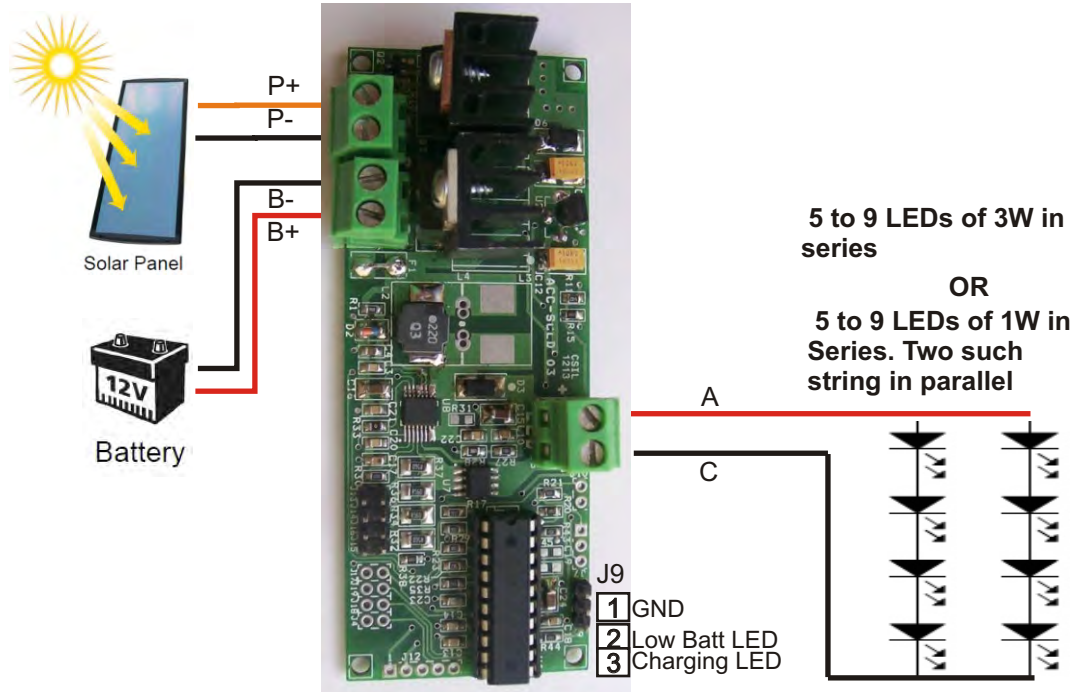
- ❑ Microcontroller based solutions
- ❑ More than 86% efficiency
- ❑ No load current is less than 3mA
- ❑ Dusk to Dawn operation which makes this unit completely autonomous
- ❑ Proprietary charging algorithm to optimally charge battery to maximize solar power utilization
- ❑ Supports solar panel up to 100W\*
- ❑ Support 12V battery up to 150Ah
- ❑ Board size is 100mm x 40mm x 30mm

## Protections

- ❑ Soft Start
- ❑ Reverse battery
- ❑ Battery Overcharge
- ❑ Battery Undercharge
- ❑ Over Voltage
- ❑ Over Current
- ❑ Thermal Overload
- ❑ Short Circuit (Optional)

\* Under standard temperature conditions

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# Solar Lantern Module

## Features

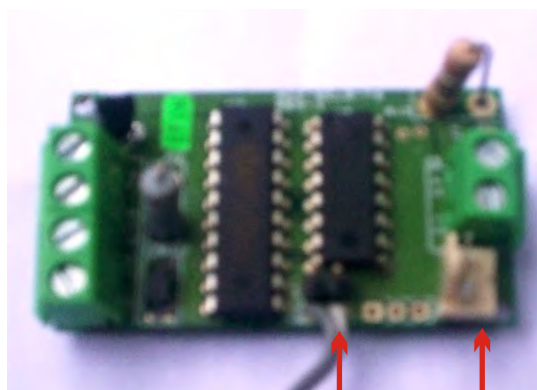
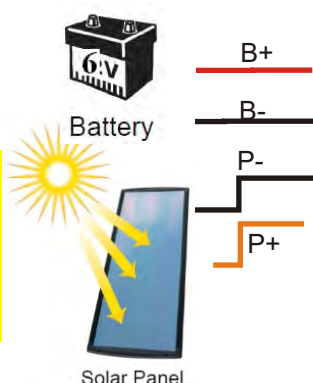
- ❑ Microcontroller based dimming enable Solar Lantern Module
- ❑ Supports 0.25W, 0.5W, and 1W LEDs in series and parallel configuration
- ❑ Configurable output LED current 300mA or 600mA
- ❑ Supports solar panel up to 6W\*
- ❑ Support 6V battery
- ❑ Mobile charging output
- ❑ Board size is 50mm x 30mm

## Protections

- ❑ Soft Start
- ❑ Reverse battery
- ❑ Over Voltage

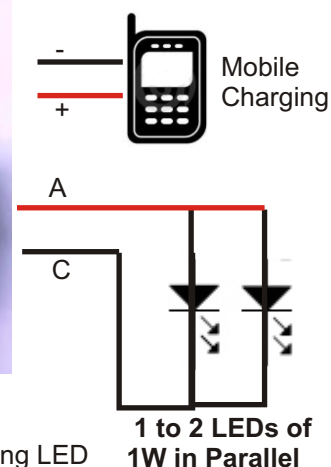
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Dimming and ON/OFF Switch  
 1 step - 33% ON  
 2 step - 66% ON  
 3 step - 100% ON  
 4 step - OFF

3 Charging LED  
 2 Low Batt LED  
 1 GND



# DC to DC Boost LED Driver Module - 10W

## Features

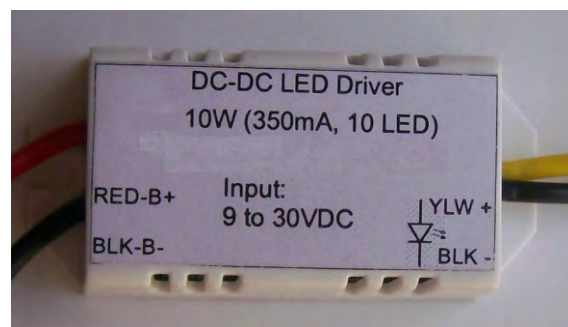
- ❑ Uses high efficiency (greater than 90%) constant current mode boost LED driver\*
- ❑ Constant output current of 300mA / 350mA
- ❑ Supports 5 to 10 nos. Of high power LED without changing the hardware configuration
- ❑ Capable of PWM dimming, can be used with DMX controller
- ❑ Reverse polarity, LED open, over voltage and over current protection
- ❑ 12V/24V system compatible and can be used with solar charge controller to create complete solar lighting system
- ❑ Off white ABS enclosure. Module size with enclosure is 50mm x 30mm

## Applications

- ❑ LED indoor and outdoor lighting
- ❑ LED garden lighting (solar & non-solar)
- ❑ LED home and office lighting
- ❑ LED architectural lighting
- ❑ LED stage lighting
- ❑ LED retro display lighting
- ❑ LED accent lighting

\* Under standard temperature conditions

\*\* Specification are subject to change without notice



# DC to DC Buck LED Driver Module

## Features

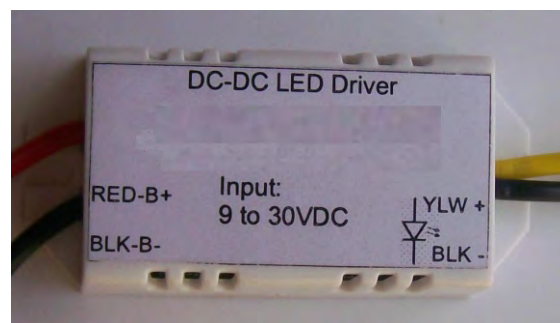
- ❑ Uses high efficiency (greater than 90%) constant current mode boost LED driver\*
- ❑ Constant output current of 300mA/350mA
- ❑ Supports 5 to 10 nos. Of high power LED without changing the hardware configuration
- ❑ Capable of PWM dimming, can be used with DMX controller
- ❑ Reverse polarity, LED open, over voltage and over current protection
- ❑ 12V/24V system compatible and can be used with solar charge controller to create complete solar lighting system
- ❑ Off white ABS enclosure. Module size with enclosure is 50mm x 30mm

## Applications

- ❑ LED indoor and outdoor lighting
- ❑ LED garden lighting (solar & non-solar)
- ❑ LED home and office lighting
- ❑ LED architectural lighting
- ❑ LED stage lighting
- ❑ LED retro display lighting
- ❑ LED accent lighting

\* Under standard temperature conditions

\*\* Specification are subject to change without notice





# Solar Home Lighting System Module

## Features

- ❑ Microcontroller based single board solutions for Solar Home Light unit
- ❑ Uses high efficiency (greater than 90%) constant current mode buck LED driver with PWM dimming input
- ❑ Supports 0.25W, 0.5W, and 1W LEDs in series and parallel configuration
- ❑ More than 85% system efficiency
- ❑ No load current is less than 3mA
- ❑ Supports solar panel up to 20W\*
- ❑ Support 12V battery up to 26Ah
- ❑ Board size is 90mm x 45mm x 25mm

## OUTPUTS

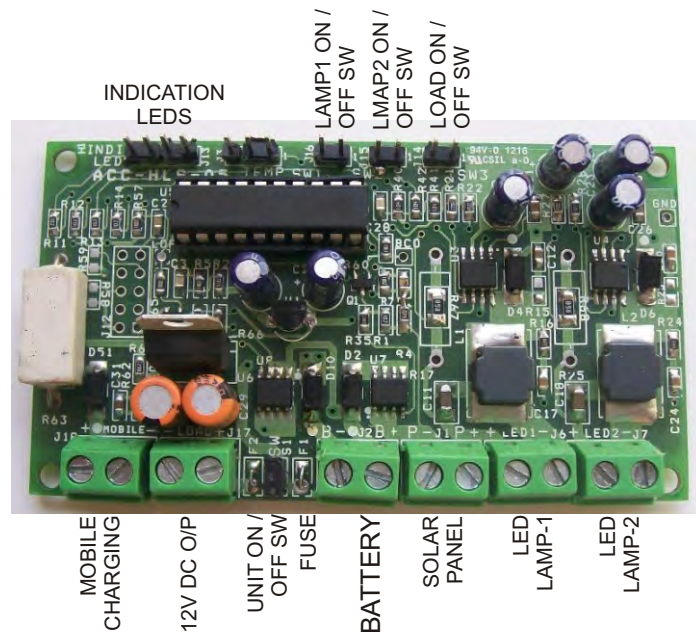
- ❑ Lamp-1
- ❑ Lamp-2
- ❑ Mobile Charging
- ❑ 12VDC

## Protections

- ❑ Soft Start
- ❑ Reverse battery
- ❑ Battery Overcharge
- ❑ Battery Undercharge
- ❑ Over Voltage
- ❑ Over Current
- ❑ Thermal Overload
- ❑ Short Circuit (Optional)

\* Under standard temperature conditions

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# Solar Charge Controller

## Features

- ❑ Microcontroller based PWM operated solid state Solar Charge Controller
- ❑ Available in three charging/load current configuration, that is, 5A, 6.5A, 10A, 12A
- ❑ Option available for with Dusk to Down or without dusk to down
- ❑ 12V system operation
- ❑ Proprietary charging algorithm to optimally charge battery to maximize solar power utilization
- ❑ Battery charging curve and temperature controlled charging to increase the battery life
- ❑ Wall mounting type rugged ABS housing, indoor use
- ❑ In-built temperature compensation
- ❑ Unit size is 125mm x 100mm x 40mm

## Indications

- ❑ Power ON
- ❑ Load ON
- ❑ Battery Charging
- ❑ Overload / Short Circuit
- ❑ Low Battery / Battery Status

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## Protections

- ❑ Soft Start
- ❑ Current back flow to panel protection
- ❑ Battery Overcharge
- ❑ Battery Undercharge
- ❑ Over Voltage
- ❑ Over Current
- ❑ Overload
- ❑ Short Circuit

## Applications

- ❑ Solar Street Light System
- ❑ Solar Home Light System
- ❑ Solar Power Plant





# 12VDC LED Bulb - 3W

## Features

- ❑ Input voltage 12VDC
- ❑ Uses high brightness LED that gives 110 lumens per watt with over 10 years of life
- ❑ Inbuilt high efficiency (greater than 90%) constant current mode LED driver
- ❑ Inbuilt protection against reverse polarity connection
- ❑ High quality ABS plastic body
- ❑ LED bulb without driver can be used with Home Light System board and Solar Lantern Board

## Applications

- ❑ Solar LED Home Light System
- ❑ Solar Lantern
- ❑ Emergency Light Systems

\*\* Specification are subject to change without notice



# 12VDC LED Bulb - 5W, 6W, 7W

## Features

- ❑ Input voltage 12VDC
- ❑ Uses high brightness LED that gives 110 lumens per watt with over 10 years of life
- ❑ Inbuilt high efficiency (greater than 90%) constant current mode LED driver
- ❑ Inbuilt protection against reverse polarity connection
- ❑ High quality pressure die cast aluminum body that gives excellent thermal performance and look
- ❑ LED bulb without driver can be used with Home Light System board and Solar Lantern Board

## Applications

- ❑ Solar LED Home Light System
- ❑ Solar Lantern
- ❑ Emergency Light Systems

\*\* Specification are subject to change without notice



5W/6W

# Solar Street Light Fixtures

## 6/9/12/15/18 - LED

### Features

- ❑ Supports 6, 9, 12, 15 or 18 LED configuration
- ❑ High brightness LED that gives 120 lumen per LED with over 10 years of lamp life
- ❑ Inbuilt Microcontroller based driver and charge controller solutions that gives 86% of efficiency and less than 3mA no load current
- ❑ Proprietary charging algorithm to optimally charge battery to maximize solar power utilization
- ❑ Dusk to Dawn operation which makes this unit completely autonomous
- ❑ Pressure die cast aluminum body gives excellent thermal performance and look

### Protections

- ❑ Soft Start
- ❑ Reverse battery
- ❑ Battery Overcharge
- ❑ Battery Undercharge
- ❑ Over Voltage
- ❑ Over Current
- ❑ Thermal Overload
- ❑ Short Circuit (Optional)

\*\* Specification are subject to change without notice

