

# Technosphere Engineering Pvt Ltd

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## SOLUTIONS IN SOLAR & LED LIGHTING, TURNKEY MANUFACTURER

### IOT & Lighting Automation

- Wireless on/off/dimming switch
- Zigbee based Dimming / Color controllers for indoor LED Lights
- Long range subGHz controller for Street lights etc
- PIR sensor controllers for LED Light dimming

### Astronomical Timer Switch

**Application:** Outdoor lighting, Common area lighting

- Switches on / off lights based on time of sunset / sunrise
- Location information stored for more than 1000 Indian cities
- Battery backed RTC, minimum 6 years reserve
- UART port for communication with external devices

### Solar Charge Controller

**PWM Models:** 12/24/48V - 5 A to 40 A

- MPPT Models: 12/24/48/96V - 10 A to 40 A
- Suitable models available for Lead Acid / Li-Ion / Li-Fe-PO4
- Available with LED Driver upto 50 Watts (24-50V, 300-1000mA)
- Dimming based on sensor input, on-time and voltage levels

### LED Drivers

- Non-isolated drivers with PF>0.95, (5 Watts - 24 Watts)
- Isolated drivers for Indoor Lighting (12 Watts - 30 Watts)
- High Power drivers (30 Watts to 100 Watts)
- TRIAC, PWM and 1-10V dimming option available
- DC-DC LED Drivers upto 50 Watts (50V,1A & 80V,500 mA)

### Solar Lantern Controller

- Suitable for 6V & 12V, Lead Acid and Lithium
- Charging current upto 1.5 Amps, PWM 3 Stage charging
- LED Driver up to 6 Watts, efficiency > 90%
- Dimming levels -10% to 100%
- No IDLE CURRENT, Controller will not drain battery power when off

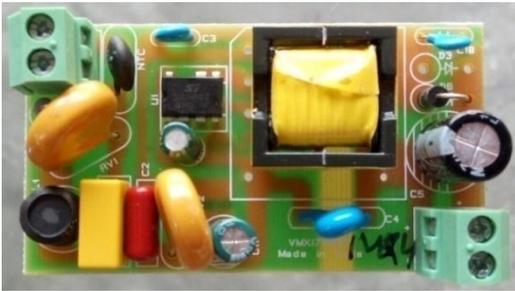
**Turnkey Manufacturing, Design &  
Development in Power & Embedded**

## **Isolated & Non Isolated LED Drivers**

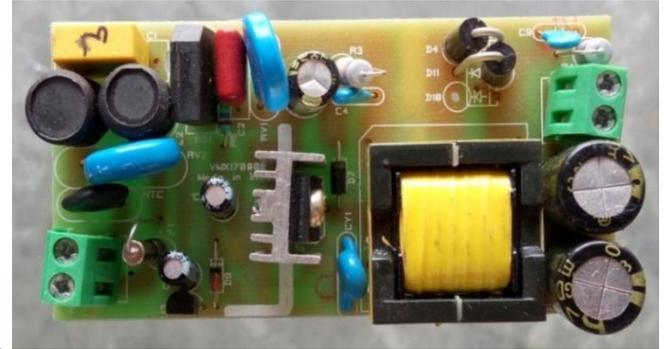
- ✓ High Efficiency: >85%
- ✓ High PF: >0.95
- ✓ Low THD: >6%
- ✓ Surge Protection: up to 10KVA
- ✓ High performance

## **DC – DC, Solar Charge Controllers, Combo Drivers**

- ✓ Microcontroller based 3 stage PWM charging with LED Driver (Boost Configuration) with > 85% Efficiency.
- ✓ Dimming (10-100%) based on on-time , PIR Sensor, Battery voltage
- ✓ Battery/Panel Reverse Polarity, Short circuit, Panel Reverse current

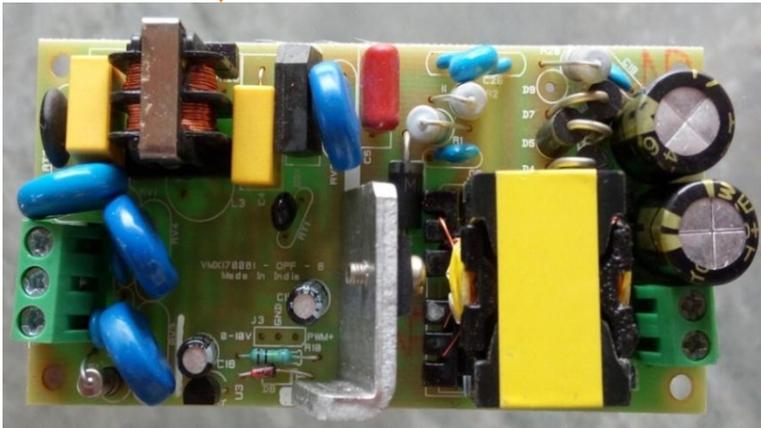


**AC-DC LED  
driver 9W-24W**

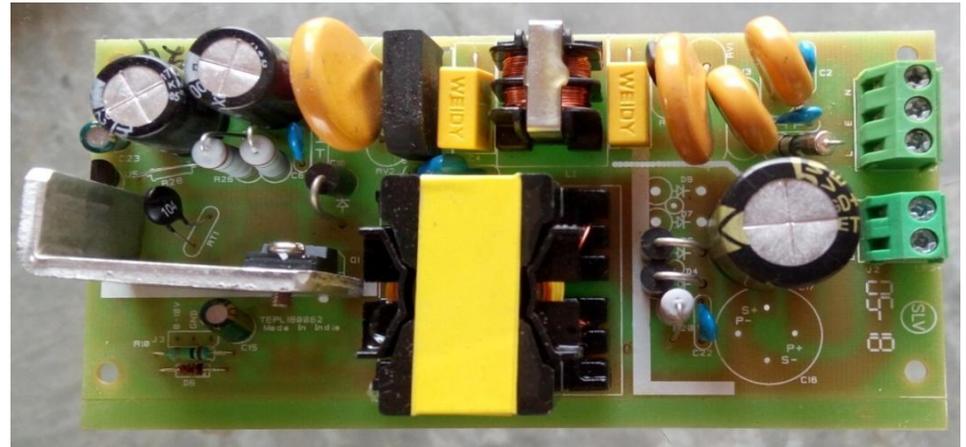


**AC-DC LED driver  
24W-40W**

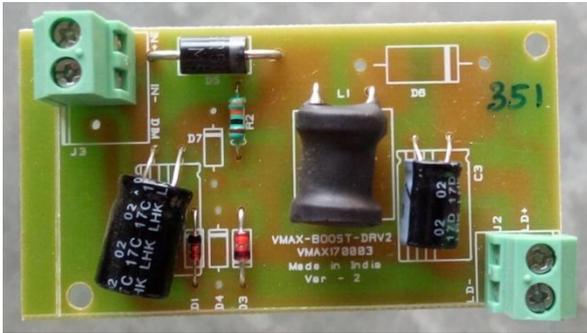
**AC-DC LED Driver-Isolated  
(Outdoor Application)**



**AC-DC LED Dimmable Driver  
18W-60W**



**AC-DC LED Driver 40W-100W**



**DC-DC LED Driver - 9W to 18W**



**Microcontrolled DC-DC LED Driver: 20W to 50W**

**DC-DC LED Driver,  
PWM Solar charge  
Controller &  
Combo driver**

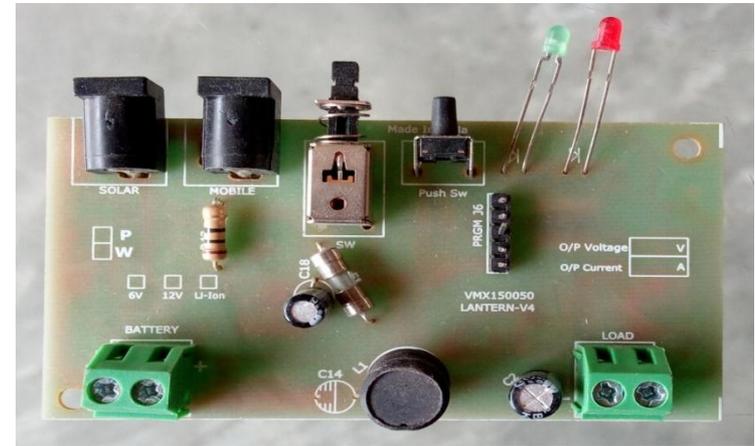


**PWM Solar charge controller 5A-20A**



**Solar charge controller with LED driver (Combo driver): 6W to 50W**

**Solar Lantern Controller,  
Solar home light Circuit &  
RTC based PWM dimming**



**Solar Lantern Controller  
with LED driver 2W-5W**



**RTC based PWM dimming**



**4A Solar home light Circuit  
with Mobile charger**

# Technosphere Engineering Pvt Ltd

## ABOUT US

Technosphere Engineering Pvt. Ltd. Formerly known as Technosphere Inc. located in Bengaluru, Karnataka. We provide complete product life cycle support in terms of Product design, Assembly, Manufacturing and Testing.

The company has developed an excellent range of products since it commenced operations in 2012 and We believe in bringing Innovative green technology products at affordable price to Indian consumers.



Quality, future development and integration, economical viability Our strength: sourcing, timely delivery, in-depth understanding and experience Technical expertise: Embedded system, Power Electronics



Design and development, Transfer of Technology, PCB Layout Design, Turnkey Manufacturing, Electronics Manufacturing Service (EMS)