

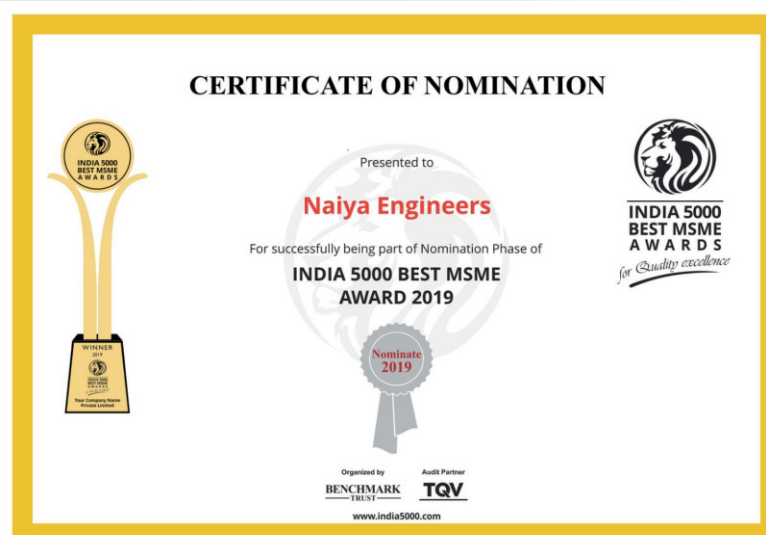


LIGHTING HAPPINESS

ABOUT US

Naiya Engineers The Sun is ultimate source of energy and we are using this ultimate resource to enlighten mother earth with our solar Lights. The most important advantage of using it is that it is totally eco-friendly with more than 90% efficiency and higher life shell as and when compared to traditional lamps. Within last two years, we are continuously researching about consumer preference. We are diving deeper into the local and Indian climatic conditions to present before you the most economical and efficiency rich lighting resources. With the continuous support of our scientific research team and engineers, and along with the feedback of our precious customers, we are regularly evolving out with constant improvement and continuous upgradations to make you Enlightened.

CERTIFICATE



SEMI-INTEGRATED SOLAR LED STREET LIGHT

WATTAGE

7 | 9 | 12 | 15 | 18 | 20 | 24 | 30 | 36 | 40 | 50

LED CHIP

OSRAM / SEOUL / NICHIA / CREE / PHILIPS

LUMEN

125 to 135 lm / watt

TECHNICAL SPECIFICATION

- IP Rating IP65 / IP66
- Battery Type Li-ion / Li-FePO₄
- Housing - Aluminium Die-Cast
- LED Driver Efficiency - up to 90%
- Temperature Range - 0°C to 60°C
- CCT (Color Temperature) - 3500 to 6500 k
- Auto Dusk to Dawn Charge controller PWM/MPPT
- Low and Full Battery Indication

APPLICATIONS

Outdoor Area Lighting | Hi-Mast Tower | Malls |
Roads & Highway | Toll Plaza | Housing colony |
Parks and Garden Area | Village and Remote Area |
Hospital and Industrial area Parking



INTEGRATED (ALL IN ONE) SOLAR LED STREET LIGHT

WATTAGE	7	9	12	15	18	20	24	30	36	40	50	60	80
LED CHIP	OSRAM / SEOUL / NICHIA / CREE / PHILIPS												
LUMEN	120 to 160 lm / watt												

TECHNICAL SPECIFICATION

- Auto Dusk to Dawn Charge controller PWM/MPPT
- LED Driver Efficiency - up to 90%
- CCT (Color Temperature) - 3500 to 6500 k
- Temperature Range - 0°C to 60°C
- Battery Type Li-ion / Li-FePO₄
- IP Rating IP65 / IP66
- Stainless steel / Fibre Body / Aluminium Body



SOLAR LED FLOOD LIGHT

WATTAGE	12	15	18	24	30	36	40	50	60	80
LED CHIP	OSRAM / SEOUL / NICHIA / CREE / PHILIPS									
LUMEN	125 to 135 LM WATT									

FEATURES

- Wide Beam High Intensity Light
- Extreme Brightness
- Inbuilt Batteries
- Intelligent Dusk to Dawn & Dimming

APPLICATIONS

Outdoor Area Lighting | Hi-Mast Tower | Warehouses
Factories & assembly lines | Industrial Sheds | Malls
Parking area | Roads & Highway Toll Plaza | Hoardings



SOLAR HOME LIGHT

TECHNICAL SPECIFICATION //

- Solar Power upto 50 watt
- Load Power upto 70 watt
- Hybrid System
- Battery Full & Low Charging Indication
- Li-ion/Li-fepo4/SMF/tubular battery
- 4 to 8 Hour Battery Backup

FEATURES //

- Portable and Aesthetic Design
- Pollution-Free and Eco-Friendly
- Compliant with Performance Standards
- Upgraded PWM with Solar Charge Controller
- Advanced Charge Topology to Enhance lithium Battery Life



APPLICATIONS //

Rural Areas | Camping | Agriculture Works |
School Projects | Homes | Street Shops | Boats

SOLAR LED LANTERN

FEATURES //

- Compact, Lightweight, Portable.
- Rugged design suitable for toughest conditions.
- Special charging socket to prevent reverse polarity.
- Low Voltage Disconnect
- Over Charge Protection.

APPLICATIONS //

- Boat cabin lighting
- Vehicle roadside emergency lighting
- Recreational vehicle cabin lighting
- Earthquake and hurricane emergency kits
- Home power-outage backup lighting



SOLAR HIGH MAST

TECHNICAL SPECIFICATION

- Highly efficient 4/6 point LED Street lights / flood lights (semi integrated / integrated - 30w / 40 w / 50 w / 60 w / 80w / 100w) mounted at top of pole.
- Specially designed optics with highest quality lenses which will give good uniformity and wider area coverage.

SOLAR PV MODULE

- High efficiency poly crystalline solar modules are tested for longer durability and manufactured with innovative technologies.
- Modules are available in wide watt power range suitable for different applications.
- Modules are designed for withstanding highly corrosive atmosphere and heavy wind loads. Tested as per IEC 61701.

BATTERY

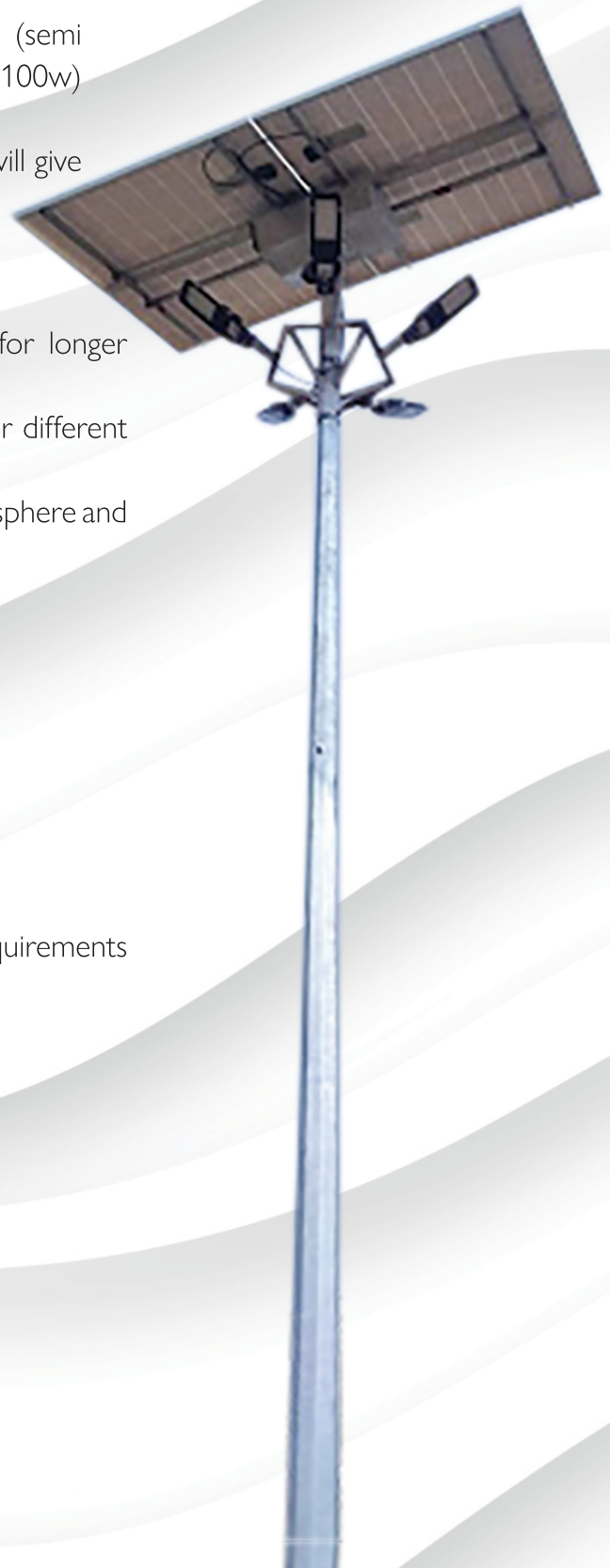
- Battery rigorously designed for solar lighting applications
- Suitable for frequent cyclic duty
- Tubular / SMF / Li-ion / LiFePO₄

POLE

- The poles can be supplied with standard and customized requirements depending upon applications.
- Tubular Pole / Octagonal Pole (M.S./GI/Hot dip galvanized)

APPLICATIONS

- Parking Plot
- Security gate lighting
- Roadway Lighting
- Construction site
- Junction Lighting
- Peripheral Lighting
- Garden and Lawns



SOLAR LED TRAFFIC BLINKER

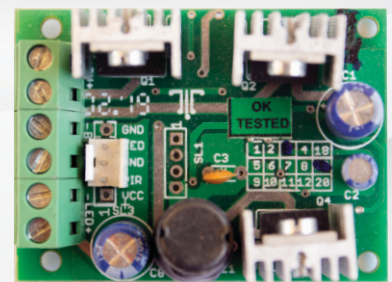
TECHNICAL SPECIFICATION //

- Low power consumption (< 5 Watt), constant light output even with variations in supply, low output degradation, even distribution of light, backup up to three continuous cloudy days, as per NHAI standards
- **Blinker Size :** 300mm (12 inch) & 200 mm (8 inch)
- **Color :** Red / Amber / Green
- **Operation :** 24 hours or 12 hours (Dusk to Dawn)
- **Body :** Polycarbonate / MS Powder Coated
- **Input Voltage :** 12v DC / 230v AC
- **Power Factor :** > 0.9
- **Visibility Range :** Visibility up to 300-500-meters
- **Solar Panel :** 12 Volts, Wattage as per NHAI Specification
- **Battery :** 12.8V/12 6Ah Li-fePO₄ Battery Pack

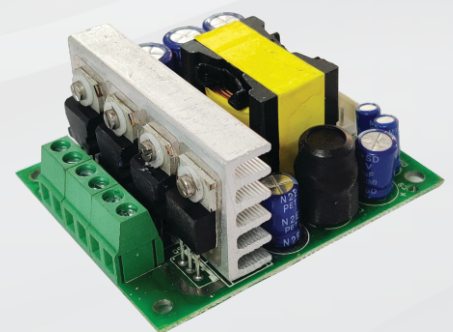


SOLAR CHARGE CONTROLLER

- **MPPT and PWM charge controllers with Auto dusk to dawn operation**
- **Support batteries :** Lead acid, Li-Ion, LiFePO₄
- **Three stage battery charge monitoring algorithm**
- **Protections**
 - Short circuit protection
 - Battery over charge protection
 - Battery deep discharge protection
 - PV reverse voltage polarity protection
 - Battery reverse voltage polarity protection
- Available for 12v/24v battery config
- Multiple load output
- Constant current load output
- Ideal power consumption <5 ma
- Dual PWM dc-dc buck LED driver
- Late night dimming mode



PWM SOLAR CHARGE CONTROLLER



MPPT SOLAR CHARGE CONTROLLER

LED STREET LIGHT

WATTAGE // 24 | 30 | 36 | 50 | 60 | 72 | 90 | 100 | 120 | 150 | 200

SPECIFICATION / FEATURES

- 125 - 135 Lumens / watt 3030 LED
- Premium Optical Lens (Optional)
- >50,000 Hours of LED Life
- 6KV-4KV Surge Protection Ip65 Drive
- THD <10%
- Over Voltage Protection
- Over Temperature Protection
- Short Circuit Protection
- Under Voltage Protection
- Anti Corrosive Ip65 Waterproof Aluminium Fixture
- Efficiency >90%
- Color Temperature 2700k - 6500k Input walted 90VAC - 270VAC - 50/60 Hz
- BIS Approved potted Driver



LED FLOOD LIGHT

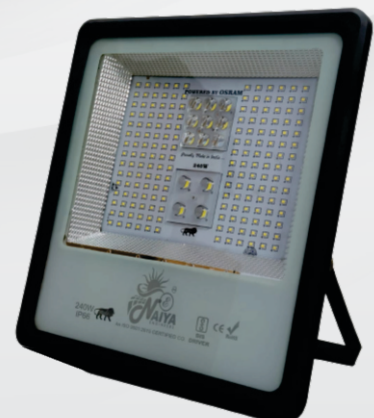
WATTAGE // 30 | 50 | 60 | 72 | 90 | 100 | 150 | 200 | 240 | 300 | 350 | 400

SPECIFICATION / FEATURES

- 125-170 Lumens / watt 3030 / 5050 LED
- >50,000 Hours of LED Life
- 6KV-4KV Surge Protection Ip65 Drive
- THD <10%
- Over Voltage Protection
- Over Temperature Protection
- Short Circuit Protection
- Under Voltage Protection
- Anti Corrosive Ip65 Waterproof Aluminium Fixture

APPLICATIONS

Outdoor Area Lighting | Hi-Mast Tower | Warehouses
Factories & assembly lines | Industrial Sheds | Malls
Parking area | Roads & Highway Toll Plaza | Hoardings



LED WELL GLASS LIGHT

WATTAGE	30	60	80	100	150	200
LUMEN	≤ 3600	≤ 7200	≤ 9600	≤ 12000	≤ 18000	≤ 24000

SPECIFICATION

Operating Voltage	90-300 V AC, 50 Hz
Power Consumption	30W - 400W
Lumens per Watt	120 - 200 lm/watt
CCT (color Temp.)	3000 k - 6500 k
Power Factor	> 0.90
THD	< 10
CRI	> 80
Beam Angle	15 - 180 Degree
Housing Material	Alluminium Die-Cast
Over Voltage Protection	Above 280 V AC
Surge Protection	4KV - 20 KV
LED Make	OSRAM / Bridgelux / Philips / Cree
IP Rating	65 / 55 (Indoor Use)



APPLICATIONS

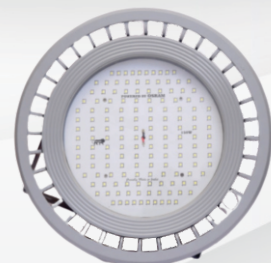
Outdoor Area Lighting | Industrial Sheds |
Warehouses Factories & Production Area |
Manufacturing Unit

LED HIGHBAY LIGHT

WATTAGE	100	120	150	200	250
---------	-----	-----	-----	-----	-----

SPECIFICATION

Operating Voltage	90-300 V AC, 50 Hz
Power Consumption	30W - 400W
Lumens per Watt	120 - 200 lm/watt
CCT (color Temp.)	3000 k - 6500 k
Power Factor	> 0.98
THD	< 10
CRI	> 80
Beam Angle	15 - 180 Degree
Housing Material	Alluminium Die-Cast
Over Voltage Protection	Above 280 V AC
Surge Protection	4KV - 20 KV
LED Make	OSRAM / Bridgelux / Philips / Cree
IP Rating	65 / 55 (Indoor Use)



APPLICATIONS

Outdoor Area Lighting | Hi-Mast Tower |
Warehouses Factories & assembly lines |
Industrial Sheds

LED FLAMEPROOF LIGHT

LED Well Glass



Vessel Lamp



Bulk Head



Hand Lamp



LED Flood Light



LED Tube Light



Clean Room Fitting



Sunflower High Bay



Enclosure : Ex-d, Gas Gr. IIA & IIB as per IS/IEC 60079-1:2007 & IS/IEC 60079-0:2004

Protection : IP-65 as per IS/IEC 60529:2001

Area Classification : Zone 1&2

Certification : PESO (CCOE), CIMFR, BIS

Material of Construction : Die Cast Aluminium Alloy

Transparent Part : Heat, Resistant & Toughened Clear Dome Glass

Wire Guard : M.S. Galvanized & White Epoxy Painted

Hardware : Stainless Steel

Earthing : 1 No. Inside & 2 Nos. Outside

Finish : Dark Admiralty Grey Epoxy Powder Coated 632

Cable Entry : M20 x 2 Nos.

Special Features :

- Superior Powder Coated Epoxy Finish
- Easy to replace the tube lamp

APPLICATIONS

- Oil & Gas field Installation
- Coal Mines
- Offshore Oil & Gas Platform
- Refineries & Petrochemicals
- Chemical Plants
- Power Plant
- Port Trusts
- Steel Plants
- Fertilizer Plant
- LPG Botting Plant
- Process Industries
- Petroleum Pumping & Gas Compressor station.

SOLAR WATER PUMP

- Single Phase/Three phase low voltage and high voltage AC/DC submersible pump
- MPPT VFD pump controller
- Low maintenance of pump
- AC/DC motor
- Soft starter feature prevents water hammering and increases system life
- Easy to install
- GI structure / GI structure with the manually movable



APPLICATIONS

Irrigation | Sprinkler Systems | Fountains |
Domestic & Industrial Water supply |
Drinking Water

SOLAR ROOFTOP

- Install Solar Roof top system for your Home and avail the benefit of GOVT subsidy for the same with 5 years system warranty.
- Get rid of the monthly electricity bill and contribute to Green Environment.
- Residential solar Rooftop system is having almost Zero maintenance and the life span upto 25 years.



OUR CLIENTS



LIGHTING HAPPINESS



E-99, Mahaveer Ind. Park,
B/h Sankheshwar ind. Park 2,
Nr. Vatva Railway Bridge, Vatva,Ahmedabad-382445
Email : info@naiyaengineers.com

