

MARS  
**SOLAR AQUA**  
Manufacture | Integration | Solutions | Service



# MASTER PRODUCT CATALOG

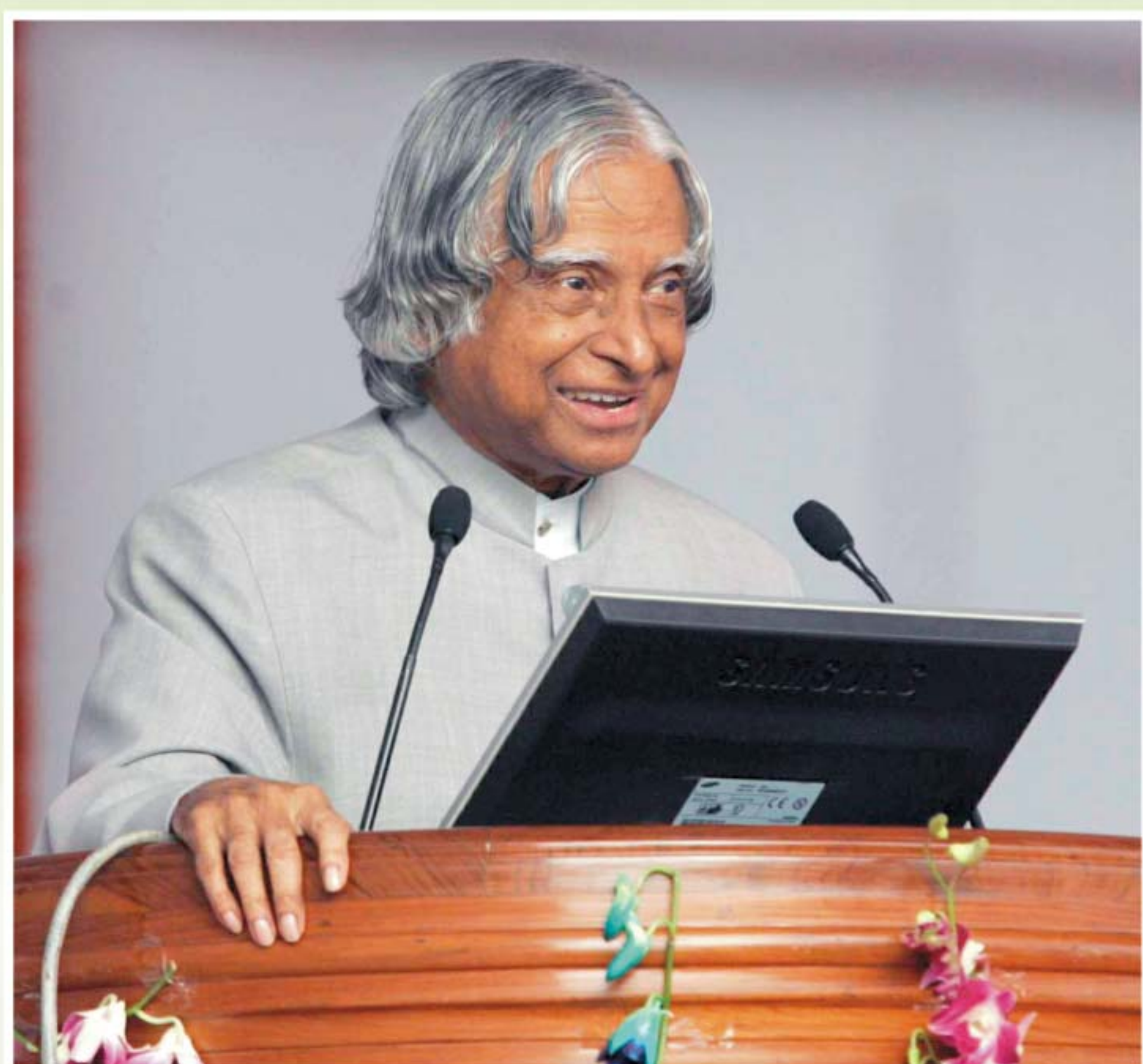


SOLAR | AQUA | PUMPS  
POWER PRODUCTS  
CONSUMABLES



[www.marssolaraqua360.com](http://www.marssolaraqua360.com)





**MARS**  
**SOLAR AQUA**  
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Every home in India should be turned into solar homes. There were 200 million homes in the country and the solar energy drive would make a big difference to the country's energy scene. Tap the solar power from space.

- Dr. A. P. J . Abdul Kalam.





## ABOUT US

MARS Solar Aqua 360 Private Limited company is the outcome of common thoughts of its Directors, wanting to be in a way a participant contributor to the society, based on the business potential research, established to venture into solar power and water treatment and purification verticals.

## OUR VISION

To be the Leader and best in class providers of Solar Energy solutions and Water Treatment and Purification solutions by pursuing business through innovative and advanced technology and perfect service compliance.

## OUR BUSINESS

Our business is designed to be a one stop solution model dealing in turnkey projects, services, EPC, consultation, solution providing, fabrication, manufacturing and trading of devices related to solar power and water treatment and purification verticals.

## OUR MISSION

To customise, design, manufacture and fabricate solar power and water treatment solutions and build a long time relationship with customers by providing exceptional services of higher ethical levels and standards through profound Staff.





ENVIRONMENT FRIENDLY  
AND ENERGY SAVING  
PRODUCTS TO SAVE FOR  
THE FUTURE





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## AQUA PRODUCTS





# RO PLANT

10 / 50 / 250 / 500 / 1000 / 1500 LPH - SEMI / FULLY AUTOMATIC  
WATER PURIFICATION & FILTRATION



## DESCRIPTION

Mars Aqua 360 RO System is equipped with high flow booster pump for Increased water production capacity. MARS Aqua RO system is equipped with High Pressure Pump for increased water production capacity. Mars Aqua RO systems are high quality products designed and manufactured with passion to deliver the best quality potable and hygienic water assuring its users a Healthy Life.

## SALIENT FEATURES

- Highly qualified pumps with International standards
- Fully SS 304 Skid and accessories
- Less Rejection Ratio
- Simple operation and control
- High efficiency reverse osmosis spiral wound membranes
- Highly qualified UPVC pipe lines and Fittings

## SPECIFICATIONS

- Raw water transfer pump
- Pressure sand Filter - FRP Vessels With Filter Medias
- Activated carbon filter - FRP Vessels with Filter Medias
- Dosing pump - 6 LPH
- Micron filter - Disposable cartridge Type
- U.V. System
- RO Membranes - size 4" Dia membrane
- High pressure pump - Vertical Multistage Pump
- Control Panel System Fully Automated
- 304 SS Skid
- Glycerine Based pressure gauges

## APPLICATIONS



HOME / APARTMENT



VILLAS



HOSPITALS



INSTITUTIONS



INDUSTRIES



# RO PLANT

2000 / 3000 / 5000 / 10000 LPH - SEMI / FULLY AUTOMATIC  
WATER PURIFICATION & FILTRATION



## DESCRIPTION

We are a trusted name as Commercial Reverse Osmosis Plant Manufacturer, Supplier in India. Apart from designing, we handle erection & commissioning of Commercial RO Plants for varied industries on turnkey basis. Our Reverse Osmosis Plants are acclaimed for efficiency and thus are ideal for the best quality water.

## SALIENT FEATURES

- Highly qualified pumps with International standards
- Fully SS 304 Skid and accessories
- Less Rejection Ratio
- Simple operation and control
- High efficiency reverse osmosis spiral wound membranes
- Highly qualified UPVC pipe lines and Fittings

## SPECIFICATIONS

- Raw water transfer pump
- Pressure Sand Filter – FRP / MS Vessels With Filter Medias
- Activated carbon filter – FRP / MS Vessels with Filter Medias
- Dosing pump – 6 LPH
- Micron filter – Disposable cartridge Type
- High pressure pump – Vertical Multistage Pump
- RO Membranes – size 8" Dia membrane
- U.V. System
- Control Panel System – Semi / Fully Automated
- 304 SS Skid
- Glycerine Based pressure gauges

## APPLICATIONS



HOME / APARTMENT



VILLAS



HOSPITALS



INSTITUTIONS



INDUSTRIES



## SOFTENING PLANT

### WATER PURIFICATION & FILTRATION



### DESCRIPTION

There are several benefits of choosing Mars aqua 360 water softener, it keeps spotless, cleaner and shinier crockery and utensils, it reduces consumption of detergent, soap, shampoo etc. It also preserves the life of appliances such as, washing machines, water heater and laundry equipment. It prevents shower head, plumbing line from clogging due to deposition of calcium. Water softener made up of FRP vessel which ensures the longevity and keeps the vessel corrosion free. Commercial water softener works on ion exchange process. It has a multi port valve and uses high quality ion exchange resin.

### SALIENT FEATURES

- Can be used up to 1500 PPM
- Highly qualified pumps used
- Less rejection ratio
- Easy to regenerate

### SPECIFICATIONS

- Raw water feed pump
- FRP Vessel
- Automatic multiport valve
- Salt tank
- Filter media

### APPLICATIONS



HIGH RISE BUILDINGS



VILLAS



HOTELS/RESORTS



COMMERCIAL BUILDINGS



HOSTELS



# ETP

## EFFLUENT TREATMENT PLANT

WATER PURIFICATION & FILTRATION



### DESCRIPTION

Mars aqua 360 offers a wide range of Effluent Treatment Plants for recycling of wastewater to reduce water demand. The comprehensive treatment solution works at various levels and involves various physical, chemical, biological and membrane processes. Mars aqua 360 provides effluent treatment solutions for various types of industrial waste water. Customized systems to suit the wide variety of effluents and to maintain efficiency are provided to industries. These systems include physio-chemical treatment, biological treatment, tertiary treatment and membrane separation process to achieve the zero-discharge standards laid by statutory authority. We provide innovative and economical systems for waste from industries like chemicals, drugs, pharmaceutical, refineries, dairy, ready mix plants & textile etc.

### SALIENT FEATURES

- Fool proof technology
- Effluent with high TDS, Turbidity and dissolved impurities
- Heavy toxic metals
- Segregation of contaminants and treatment in each stage for removal and disposal of sludge
- Low reject high product RO
- Imported plate heat exchanger for high heat transfer Co Efficiency. No choking and scaling in evaporator as scale removal system installed before evaporator

### SPECIFICATIONS

- Reverse Osmosis
- High Rate Anaerobic Reactor
- Aerobic Reactor
- Electro Colour Removal Reactor
- Evaporator
- Ultra Filtration
- Nano Filtration
- Spray Dryer
- Zero Liquid Discharge

### APPLICATIONS



TEXTILE INDUSTRIES



CHEMICAL INDUSTRIES



PAPER INDUSTRIES



FOOD AND BEVERAGE



AUTOMOBILES



# STP

## SEWAGE TREATMENT PLANT

### WATER PURIFICATION & FILTRATION



### DESCRIPTION

Sewage treatment is the process of removing contaminants from wastewater, primarily from household sewage. It includes physical, chemical, and biological processes to remove these contaminants and produce environmentally safer treated effluent. Sewage treatment generally involves three stages, called primary, secondary and tertiary treatment. Mars Aqua 360 sewage treatment plants are available in RCC constructed designs for commercial and residential buildings as well as Mild Steel FRP Lined tanks for easy installation and commissioning.

### SALIENT FEATURES

- BOD reduction up to 97%
- Extremely compact & Good aesthetics
- Imported floating media ( MBBR)
- Less sludge generation & Easy maintenance
- No need to maintain MLSS / Once through system

### SPECIFICATIONS

- Sequence Batch Reactor (SBR)
- Membrane Bio Reactor (MBR)
- Anaerobic Reactor/Digester
- Packaged sewage treatment plants
- Dissolved air floatation DAF system
- UV disinfection
- Chlorinator

### APPLICATIONS



HIGH RISE BUILDINGS



VILLAS



COMMERCIAL BUILDINGS



HOTELS/RESORTS



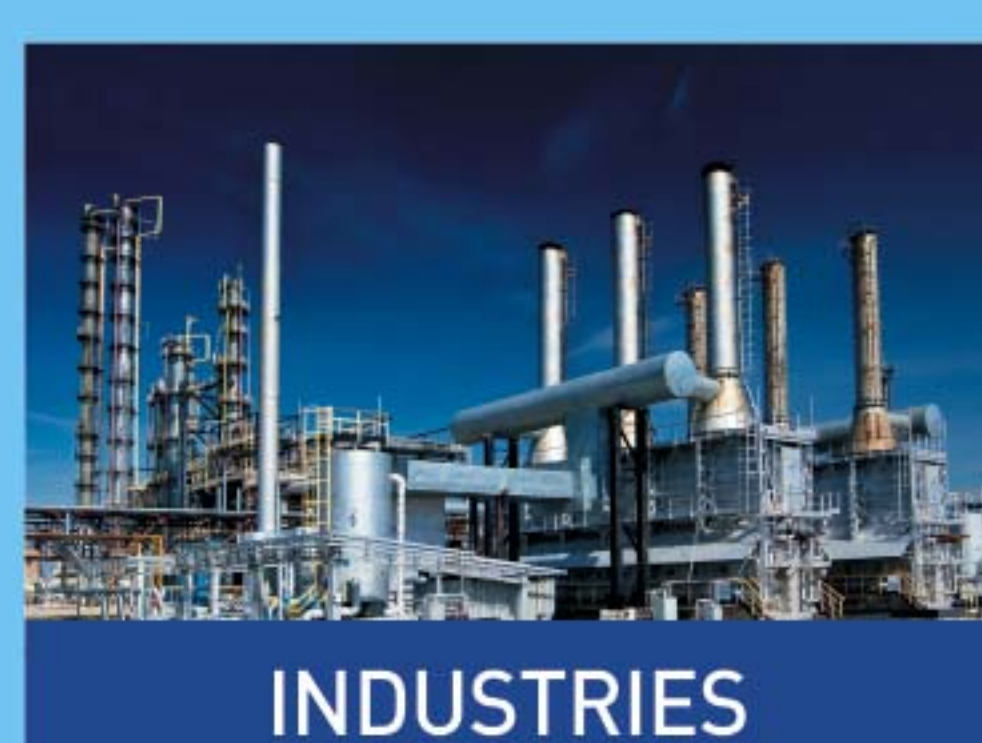
HOSPITALS



INSTITUTIONS



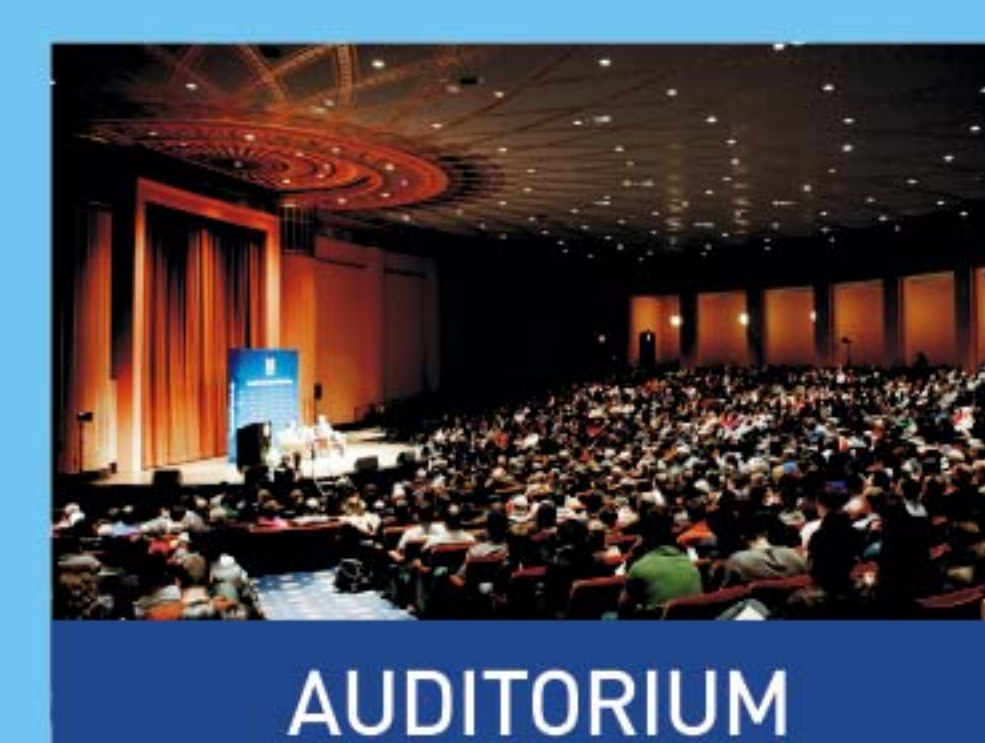
HOSTELS



INDUSTRIES



APARTMENTS



AUDITORIUM



# WTP

## WATER TREATMENT PLANT

WATER PURIFICATION & FILTRATION



### DESCRIPTION

Mars aqua 360 WTP plant makes water more acceptable for a specific end-use. The end use may be drinking, industrial water supply, irrigation, water recreation and many other uses. Water treatment removes contaminants and undesirable components, or reduces their concentration so that the water becomes fit for its desired end-use. Mars Aqua 360 has excellent infrastructure to design, engineer, manufacture and carry out erection and commissioning the complete range of water treatment plants and systems to suit various requirements.

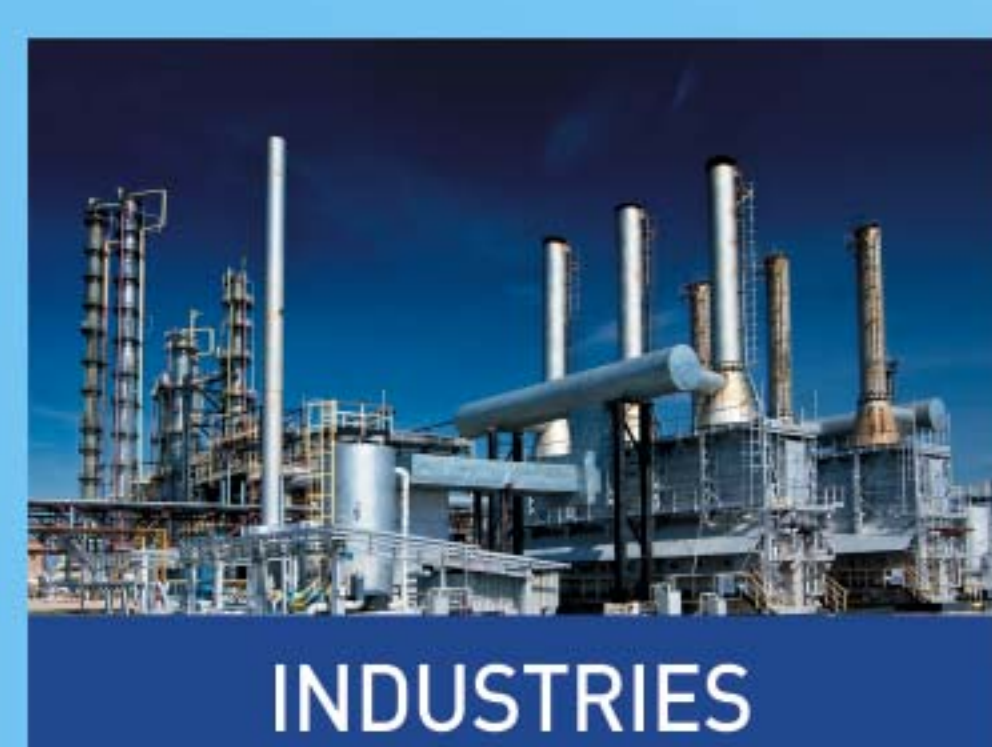
### SALIENT FEATURES

- Highly qualified pumps with International standards
- Fully SS 304 Skid and accessories
- Less Rejection Ratio
- Simple operation and control
- High efficiency reverse osmosis spiral wound membranes
- Highly qualified UPVC pipe lines and Fittings
- Silver Ionization Techniques used
- Chlorination system
- Fully automated system

### SPECIFICATIONS

- Reverse osmosis plants
- Ultra filtration, Pressure sand filter
- Activated carbon filter
- Dual media filters
- Iron removal systems
- Water softeners, UV disinfectors
- Electro chlorinator, DM plants

### APPLICATIONS



INDUSTRIES



VILLAS



INSTITUTIONS



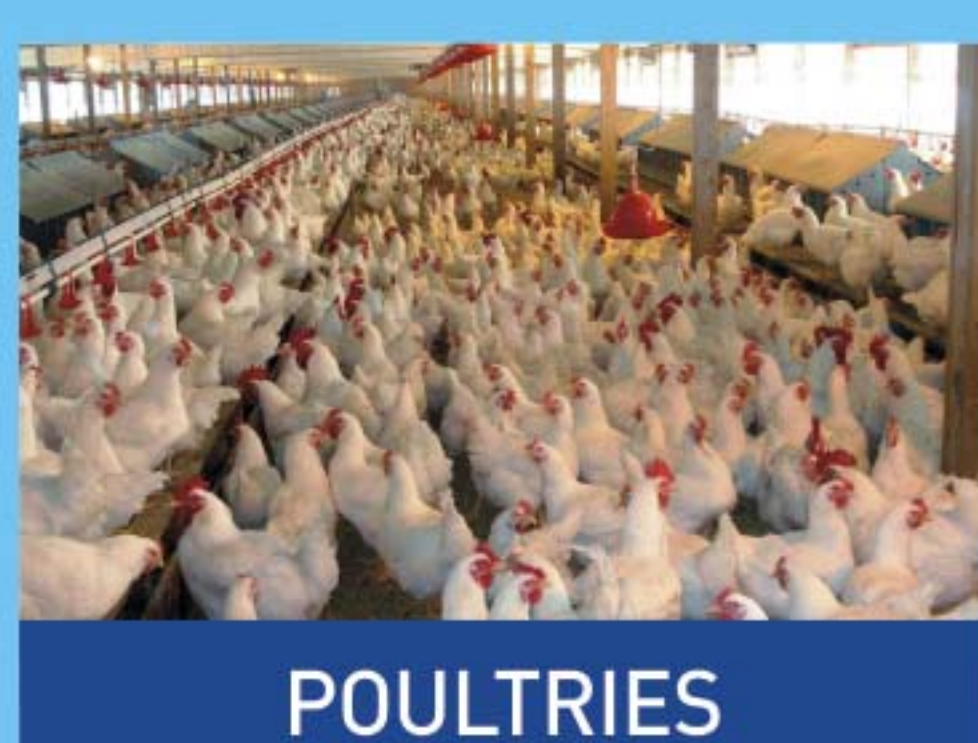
HOTELS/RESORTS



APARTMENTS



DRINKING WATER PLANTS



POULTRIES



SWIMMING POOL



## WATER DISPENSER



### DESCRIPTION

MARS Aqua 360 Water Dispenser is our salt buster product which can be used on water with TDS between 250-1250 ppm. It converts salty water to fresh drinking water added with UV technology to ensure the complete microbiological disinfection.

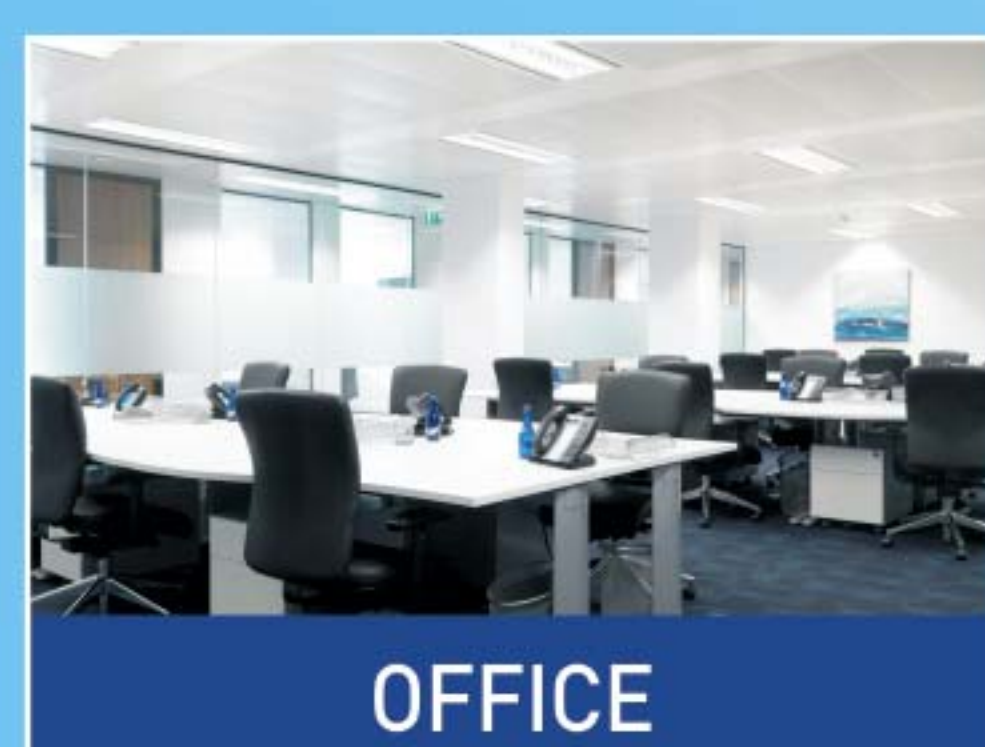
### SALIENT FEATURES

- Highly efficient tubular UV design
- Pre-warning indication helps to know that the pre-filter is to be changed
- Sensors – to monitor the performance of the UV & ozone
- Quartz Sleeve – to maximize the purification efficiency
- Built in timer to monitor the life time of the UV Lamp
- Dump – to empty the tanks if the machine is kept idle for about 72 hours
- Added minerals
- Alkaline water which is good for health
- Highly qualified UPVC pipe lines and Fittings
- Silver Ionization Techniques used
- Chlorination system
- Fully automated system

### SPECIFICATIONS

- Micron candle filter(5 micron) – for sediment removal
- Pre carbon filter – for eliminating the odor, color and organics
- Anti-scalent – for membrane protection
- RO membrane – for TDS reduction
- Post carbon filter – for polishing the permeate water
- UV – to ensure complete microbiological disinfection

### APPLICATIONS



OFFICE



VILLAS



INSTITUTIONS



HOTELS/RESORTS



APARTMENTS



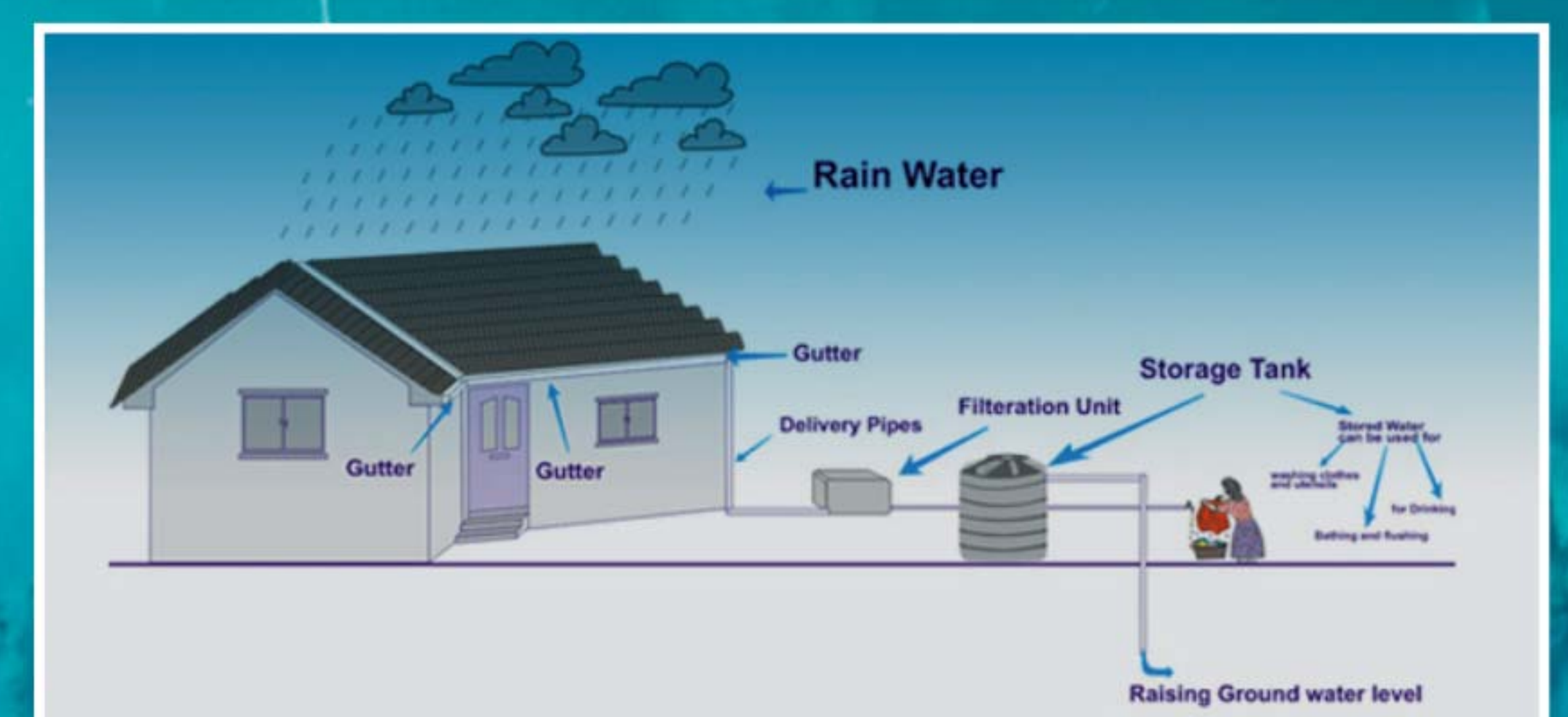
HOSTELS



HOSPITALS



# RAIN WATER HARVESTING SYSTEM



## DESCRIPTION

Rainwater harvesting provides an independent water supply during regional water restrictions, and in developed countries, is often used to supplement the main supply. It provides water when a drought occurs, can help mitigate flooding of low-lying areas, and reduces demand on wells which may enable groundwater levels to be sustained. It also helps in the availability of potable water, as rainwater is substantially free of salinity and other salts. Application of rainwater harvesting in urban water system provides a substantial benefit for both water supply and wastewater subsystems by reducing the need for clean water in water distribution system, less generated stormwater in sewer system and a reduction in stormwater runoff polluting freshwater bodies.

## SALIENT FEATURES

With the use of Mars Aqua 360 Filters one can harvest the rainwater and recharge the groundwater source to meet the requirements to the extent of 35 % of the annual requirements. Solar Aqua 360 Filters are a good substitute for Conventional Filters like sand filter. Filtration chamber with layers of aggregate. This filter is absolutely maintenance free compared to conventional filter Mars Aqua 360 is designed specifically for Rainwater Harvesting and 'Mars Aqua 360' Filters are designed to fix to the wall by connecting Rooftop water Pipes. When the rainwater flows by gravity through the uniquely designed inlet of filter and enters the upper housing so as to flow into the Stainless Steel 304 grade filter element in angular motion at specific velocity, which creates cohesive force and segregates dirt particles and clean water individually. There by dirt particles and waste materials are flushed out through the dram outlet and at the same time clean water passes through the clean water outlet which can be used for utilization or recharging of bore wells

## APPLICATIONS



VILLAS



INSTITUTIONS



HOTELS/RESORTS



APARTMENTS



HOSTELS





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## SOLAR PRODUCTS



# SOLAR

WATER HEATER - 100 / 200 / 300 / 500 / 1000 / 1500 / 2000 / 3000 LPD  
EVACUATED TUBE COLLECTOR (ETC)



## DESCRIPTION

Mars Solar 360 Solar Water Heater (ETC System) works on a simple principle 'Black body heat absorption principle'. The principle says, 'black colour absorbs maximum heat, more than any other colour'. It may not be something that's overly common for Indian households but the Solar Domestic Water Heater is slowly but surely becoming a popular option for the community. Since they rely on the power of the sun, solar domestic geysers are required to be kept outdoors in open spaces like terraces with ample space and naturally, no shade. Solar water heating systems using vacuum tubes made of borosilicate glass with special coating to absorb the solar energy are called as Evacuated Tube Collector system (ETC Systems)

## SALIENT FEATURES

- High quality tubes made from borosilicate glass
- Better performance in winter and cloudy days
- Makes hot water available even on partially cloudy days
- High quality PUF insulation for maintaining high temperature of water inside the tank
- Easy to install, operate and maintain
- Galvanized Iron tank for hot water storage
- Safe and environment friendly

## SPECIFICATIONS

### Storage Tank

- Available in 100LPD, 200LPD, 300LPD, 500LPD
- Glass enamel coated

### Collector

- Single sheet absorber
- Extruded aluminium with grey colour powder coating

## APPLICATIONS



VILLAS



HOSTELS



HOME / APARTMENT



HOTELS/RESORTS



HOSPITALS



# SOLAR

## WATER HEATER - 100 / 200 / 300 / 500 / 1000 / 1500 / 2000 / 3000 LPD FLAT PLATE COLLECTOR (FPC)



### DESCRIPTION

It may not be something that's overly common for Indian households but the Solar Domestic Water Heater is slowly but surely becoming a popular option for the community. Since they rely on the power of the sun, solar domestic geysers are required to be kept outdoors in open spaces like terraces with ample space and naturally, no shade. Flat Plate Collector type solar water heater is more Durable than the normal ETC type solar water heaters. The FPC type solar water heater is suitable for pressurized applications.

### SALIENT FEATURES

- Screw design of collector for easy glass replacement
- New anode mounting
- Collector fully sealed with gaskets
- Inner Tank Coated with "GLASS ENAMEL COATING" for corrosion resistance
- High-quality PUF insulation on tank
- System withstands upto 6 bar pressure
- Pressurised for all modern bathing systems

### SPECIFICATIONS

#### Collector

- Absorber coating - Absorptivity: 0.95 +/-0.02, Emissivity: 0.5+/-0.02
- Back insulation- Rockwool density: 48 kg/m<sup>3</sup>
- Absorber construction- Single sheet absorber
- Riser- Copper: 12.7 mm
- Header- Copper: 25.4 mm
- Collector material- Extruded aluminium with grey colour
- Glazing- Solar glass
- Weight of collector (dry)- 32 kg
- Maximum working pressure-10 bar

#### Storage Tank

- Glass enamel coated
- Outer cladding - Pre-coated steel (RAL 7035)
- Working pressure - 6 bar for pressurised system
- Tank capacity - 100, 200, 300 and 500 LPD

### APPLICATIONS



VILLAS



HOSTELS



HOME / APARTMENT



HOTELS/RESORTS



HOSPITALS



# SOLAR

## ON GRID SYSTEM - 1KW to 100 MW POWER PRODUCTION & DISTRIBUTION



### DESCRIPTION

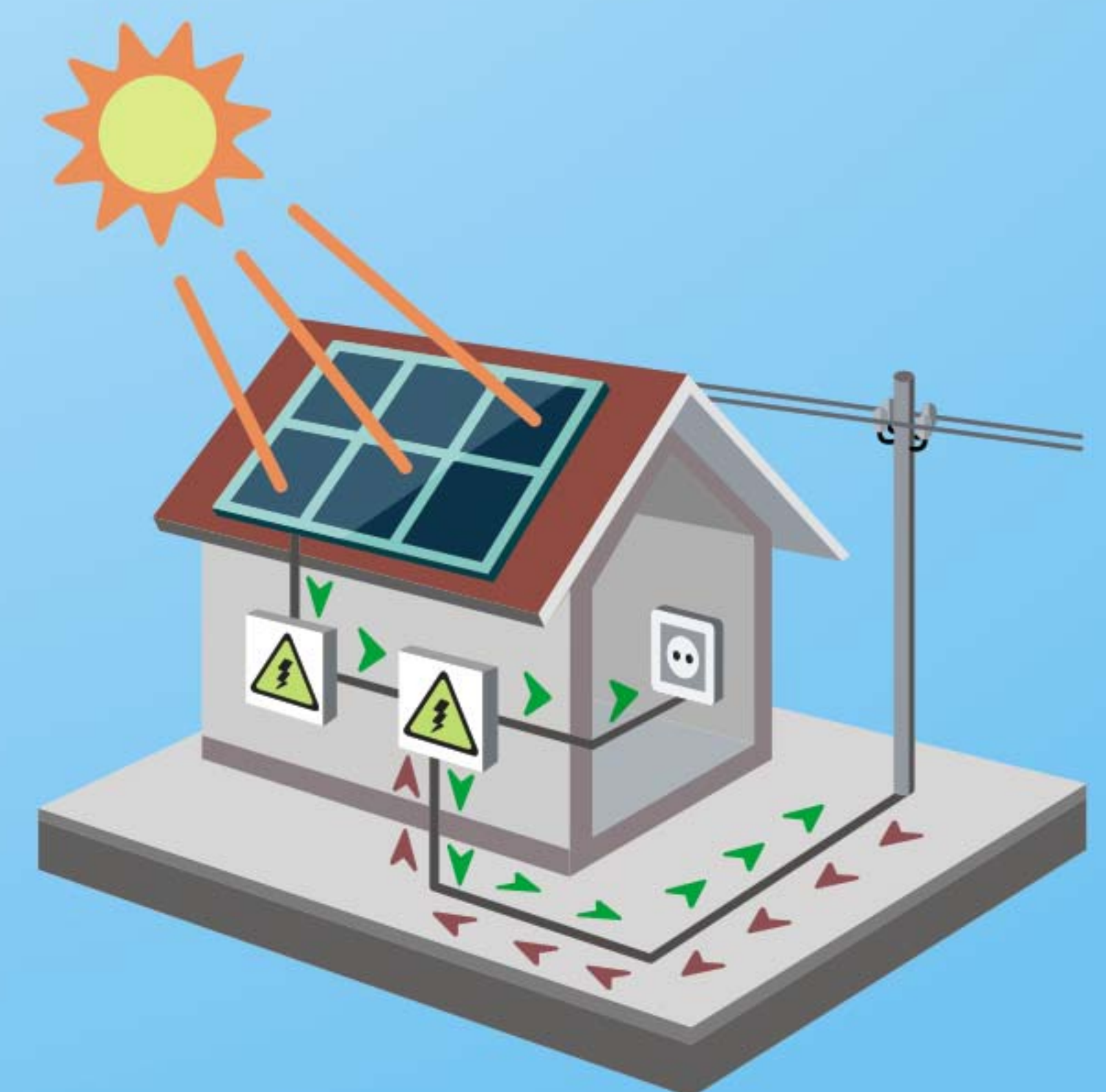
India enjoys over 300 days of sunshine every year. At Mars solar 360, we have developed an array of solar power solutions that are reliable, affordable and green. They range from small residential and commercial rooftop systems to large utility-scale solar power stations. Tried, tested and trusted for over two decades, our products assure great value for money. Mars solar 360 offers you the best of cutting-edge solar power technology.

### SALIENT FEATURES

- Less expensive as battery not required
- Any amount of load can be operated
- Minimum loss of electricity due to high efficiency Grid-Tie Inverters
- Stable and adequate supply of electricity
- Optimal use of all available energy resources

### SPECIFICATIONS

- Grid Tie Inverter - 1 KVA to 250 KVA
- Single phase and Three phase inverters available
- Panel Ranges from 250 W to 315 W
- Output Frequency - 50 Hz
- Output voltage - 240 V for single phase, 440 V for Three Phase
- Input supply - DC - above 650 V



### APPLICATIONS



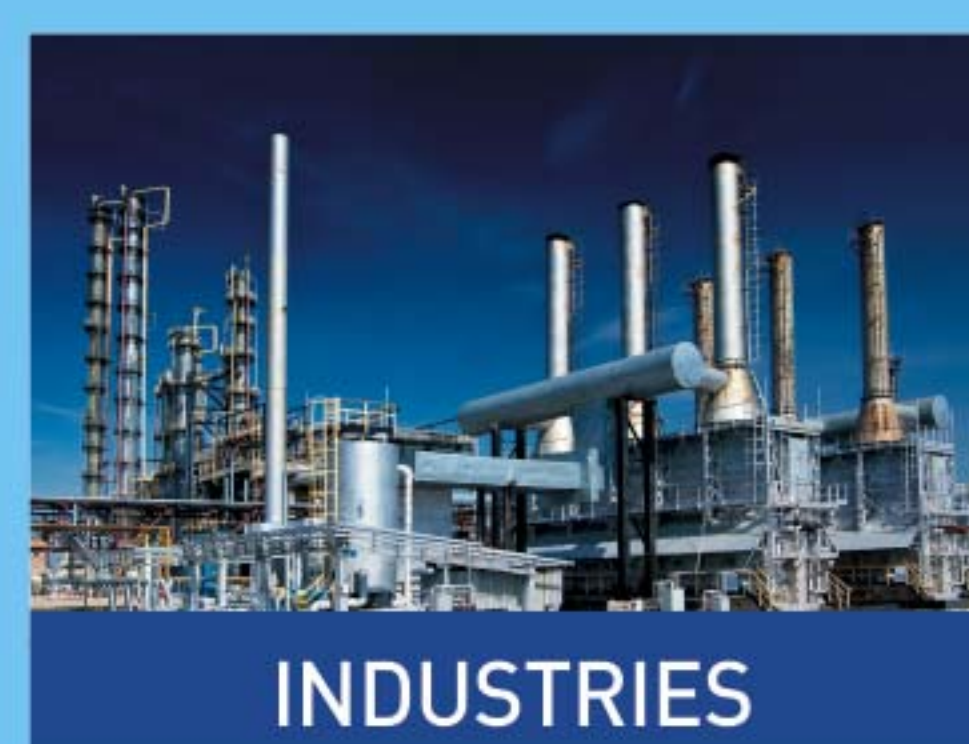
HOME / APARTMENT



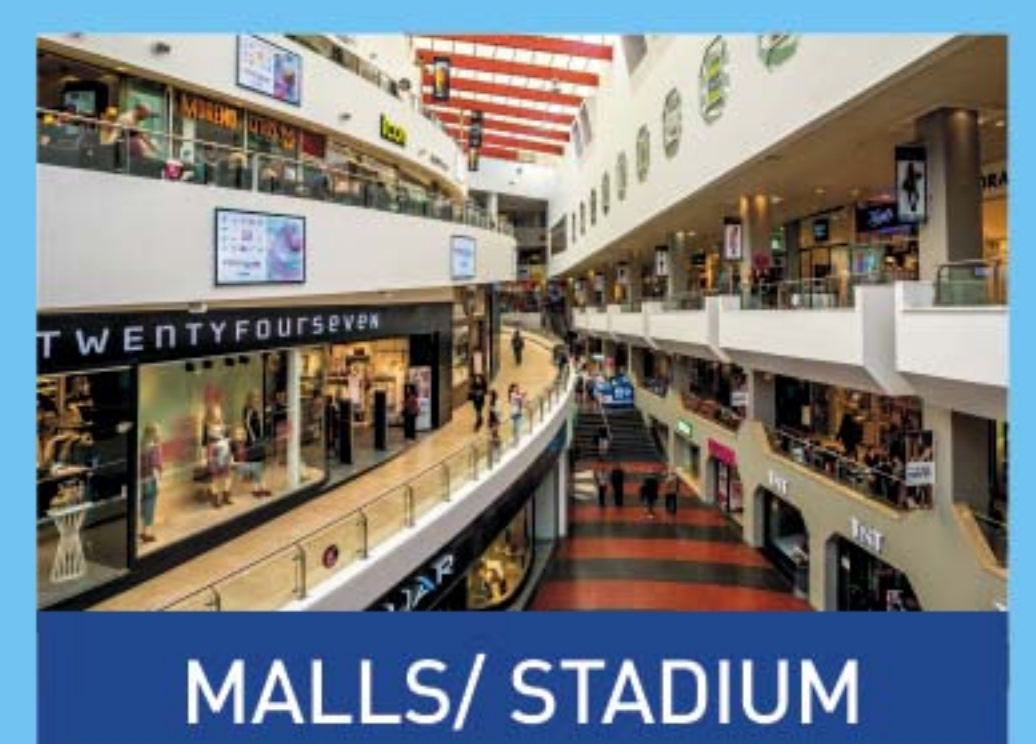
HOSPITALS



INSTITUTIONS



INDUSTRIES



MALLS/ STADIUM



# SOLAR

## OFF GRID SYSTEM

POWER PRODUCTION WITH BACKUP



### DESCRIPTION

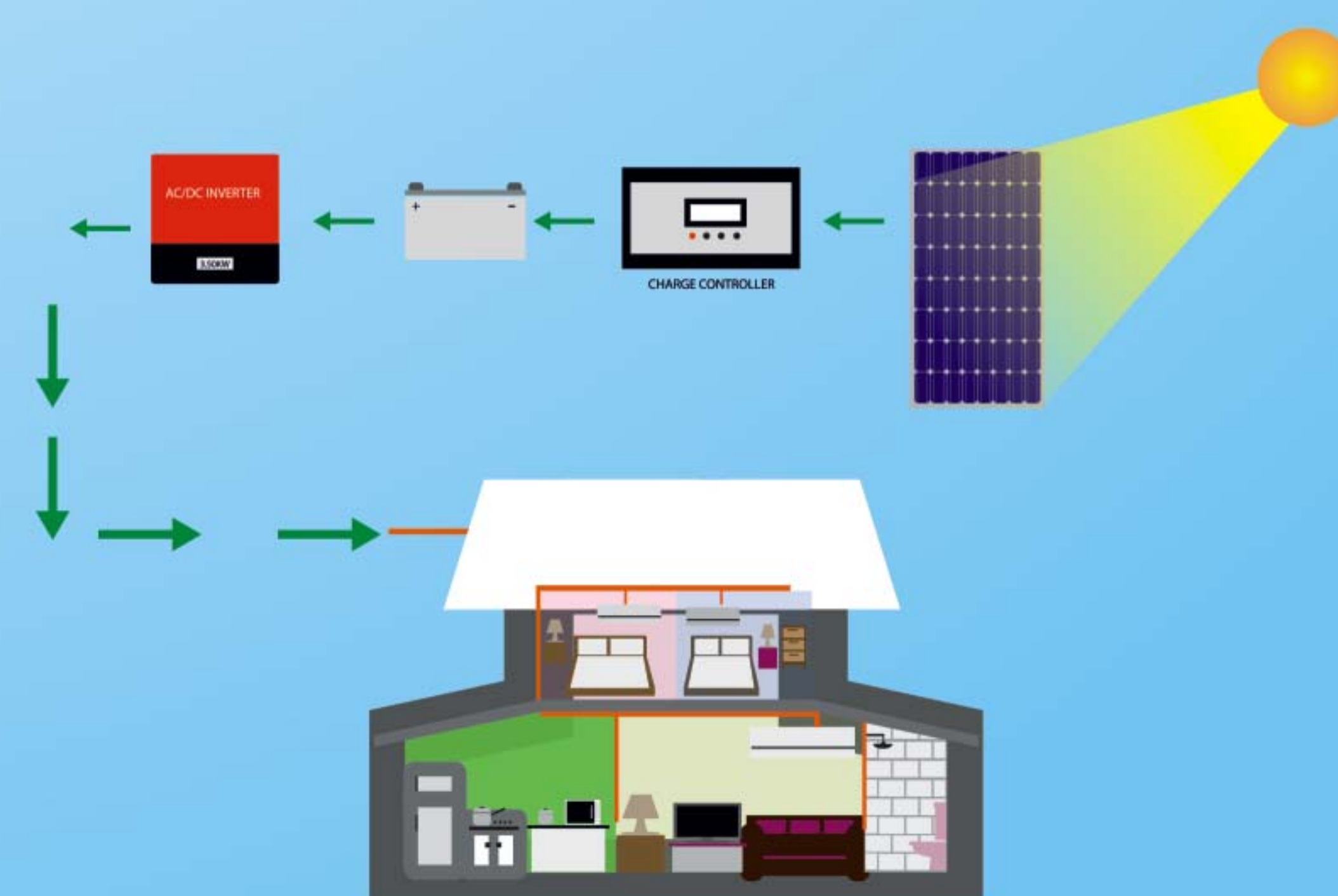
India enjoys over 300 days of sunshine every year. At Mars solar 360, we have developed an array of solar power solutions that are reliable, affordable and green. Mars solar 360 brings you custom-made systems to create completely self-sufficient power supply. Once installed, this system will power all electrical appliances and applications through solar energy.

### SALIENT FEATURES

- Optimum functionality, longer service life, reliable operation.
- Capacity 1 kilowatt - 100 kilowatt.
- Intelligent MPPT based charge controller.
- Reduces cost of operations and maintenance of generator set
- Stable and adequate supply of electricity
- Optimal use of all available energy resources

### SPECIFICATIONS

- Sine wave Inverter - 1 KVA to 25 KVA
- Single phase and Three phase inverters available
- Panel Ranges from 125 W to 315 W
- Output Frequency - 50 Hz
- Output voltage - 240 V for single phase, 440 V for Three Phase
- Input supply - DC
- Battery voltage 12V/24V - SMF/ Tubular



### APPLICATIONS



VILLAS



INSTITUTIONS



COMMERCIAL BUILDINGS



HOTELS/RESORTS



HOSPITALS



# SOLAR

## PUMPING SYSTEM - 1 HP to 60 HP



### DESCRIPTION

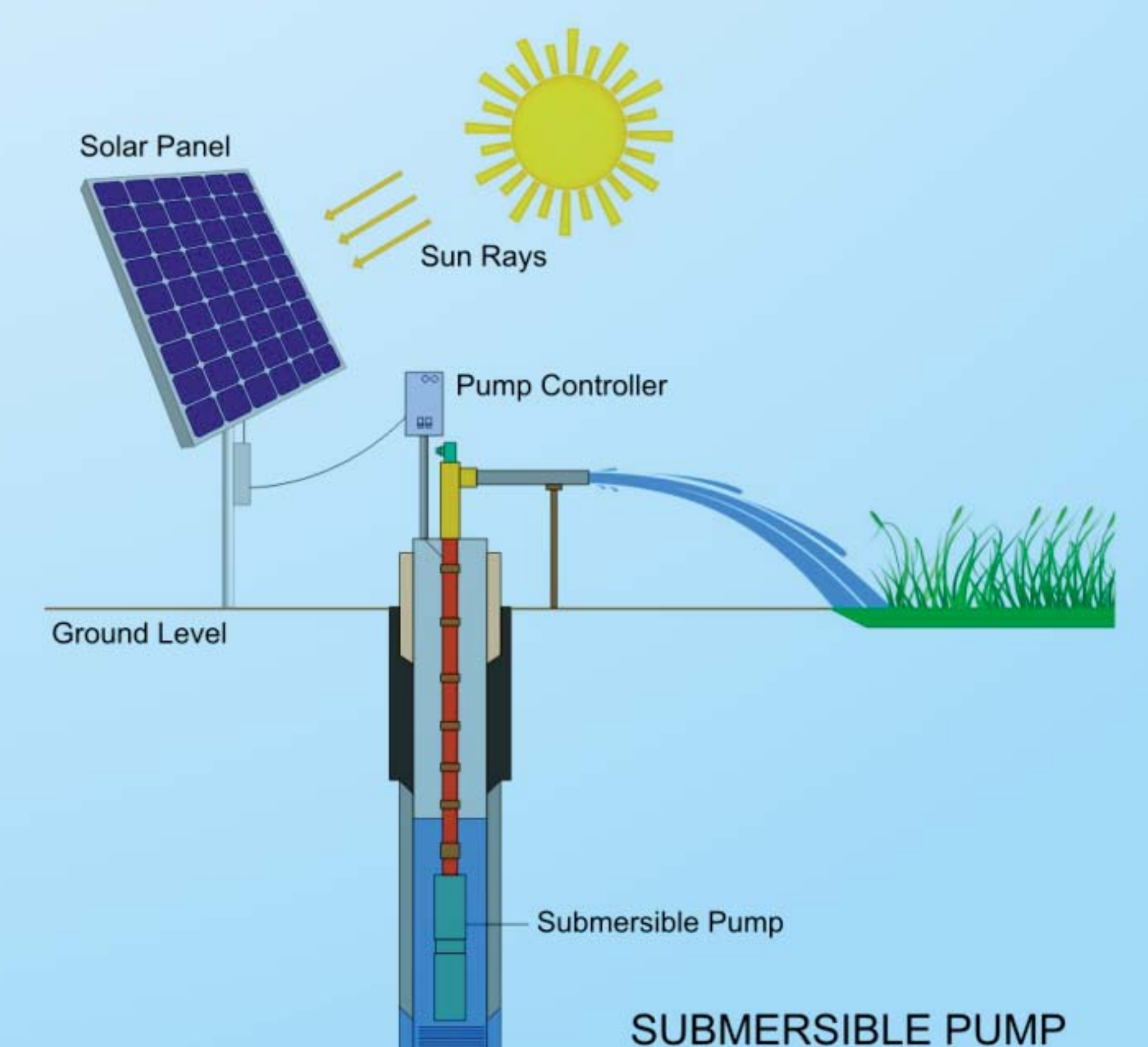
The finest range of Solar Water Pumps made available by us in the market is widely known to be the finest among the available in the market. Solar water pumps are specially designed to lift water for irrigation, horticulture farms, gardens, drinking and other similar applications. These solar powered water pumps are best alternatives for areas where there is no electricity or scarcity of power supply. Photovoltaic's solar water pump systems can be easily installed and requires minimum maintenance.

### SALIENT FEATURES

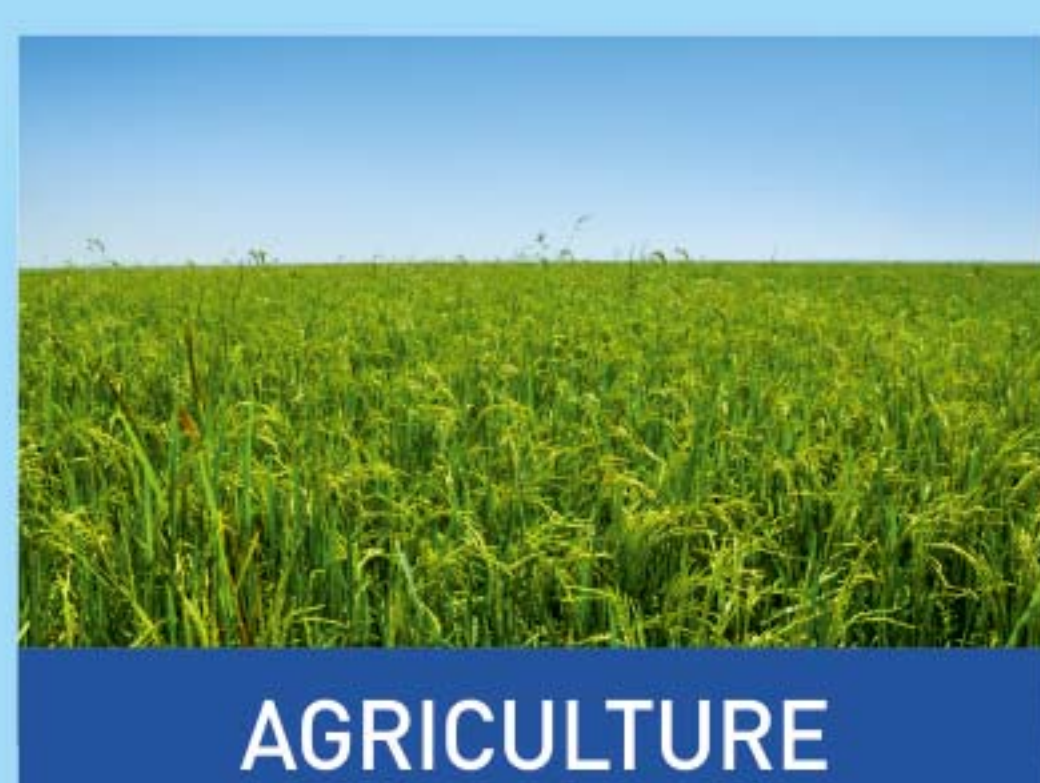
- Suitable for single Phase and 3 phase motor
- Inbuilt MPPT Technology
- Variable Frequency Drive ( VFD)
- Pure Sinewave Motor Protection
- Solar Panel Capacity Upto 20 kWp
- Solar efficiency 98%
- IGBT Power Stage
- Suitable for Monoblock and Submersible Pumps

### SPECIFICATIONS

- Capacity 1 HP - 25 HP
- VFD - 1 KVA to 20 KVA
- Capacity 1 HP - 25 HP
- Panel Ranges from 250 W to 315 W
- Output Frequency – 50 Hz
- Output voltage – 440 V for Three Phase
- Input supply – DC - above 650 V



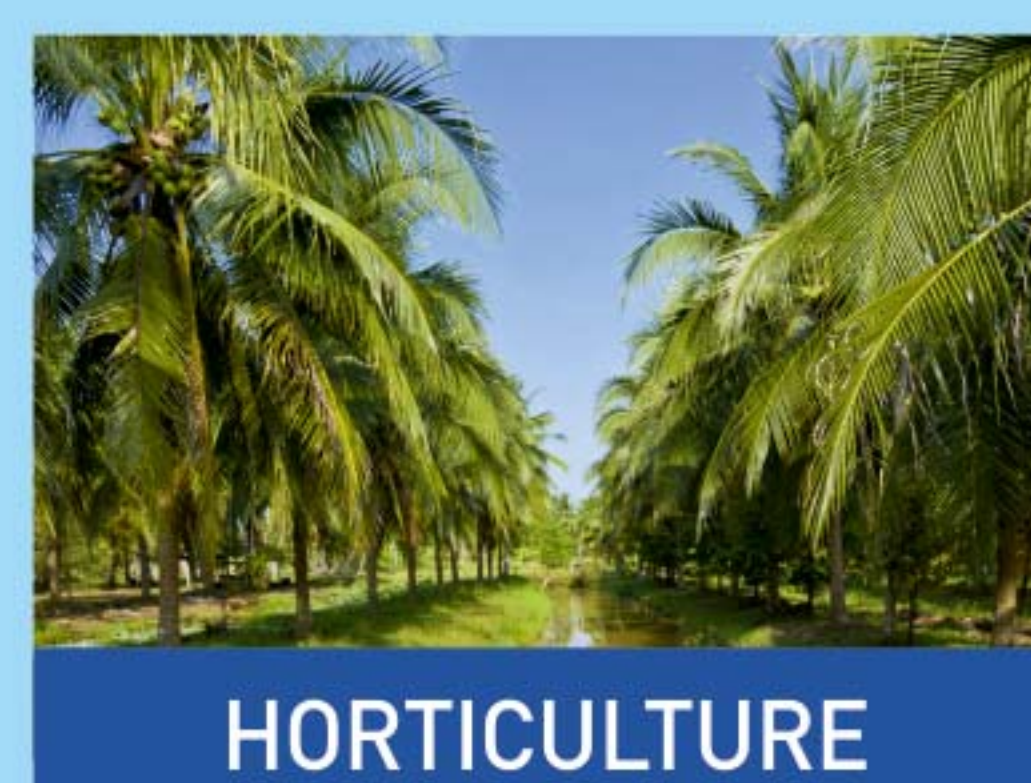
### APPLICATIONS



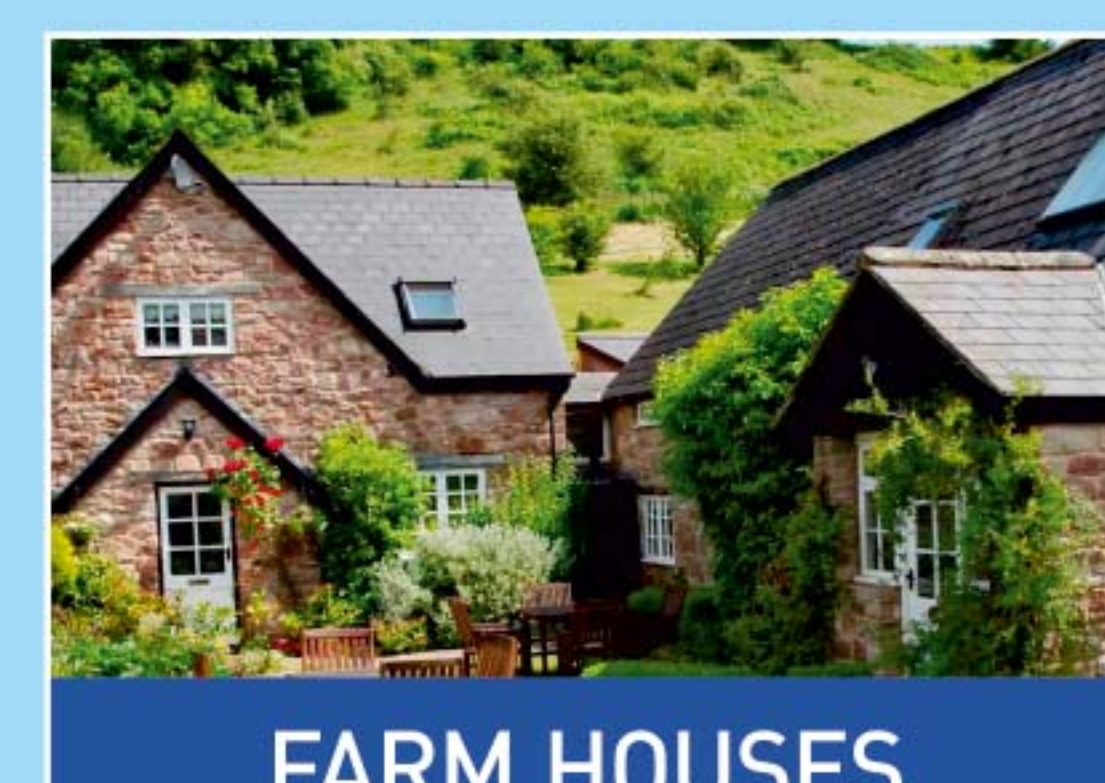
AGRICULTURE



DRIP IRRIGATION



HORTICULTURE



FARM HOUSES



# SOLAR FENCING SYSTEM



## DESCRIPTION

Electric fence systems have varied application in Agriculture, Industrial and Forestry or Plantation sectors. With increasing crime in urban areas, this proven technology has now been adapted for domestic security applications, too. Industrial: Security Electric Fence systems provide 100% protections against theft, pilferage, arson, sabotage. The fence systems can also be integrated with other security devices like sirens, flood lights etc., making it impenetrable. Domestic: The wall top system for residential applications is sleek, aesthetic and ideal for compounds, rooftops, farm houses and apartments.

## SALIENT FEATURES

- Stand alone non-lethal system
- Low cost
- Easily constructed
- Long life
- Universal application
- Improves existing fences
- Simplicity and flexibility
- Low maintenance
- Less damage to stock

## SPECIFICATIONS

- Solar Photovoltaic Module
- Battery
- Charge Controller unit
- Energizer
- Alarm
- Fence with poles, GI wire, Insulators, Wire tightners, earthing kit and neon tester etc.

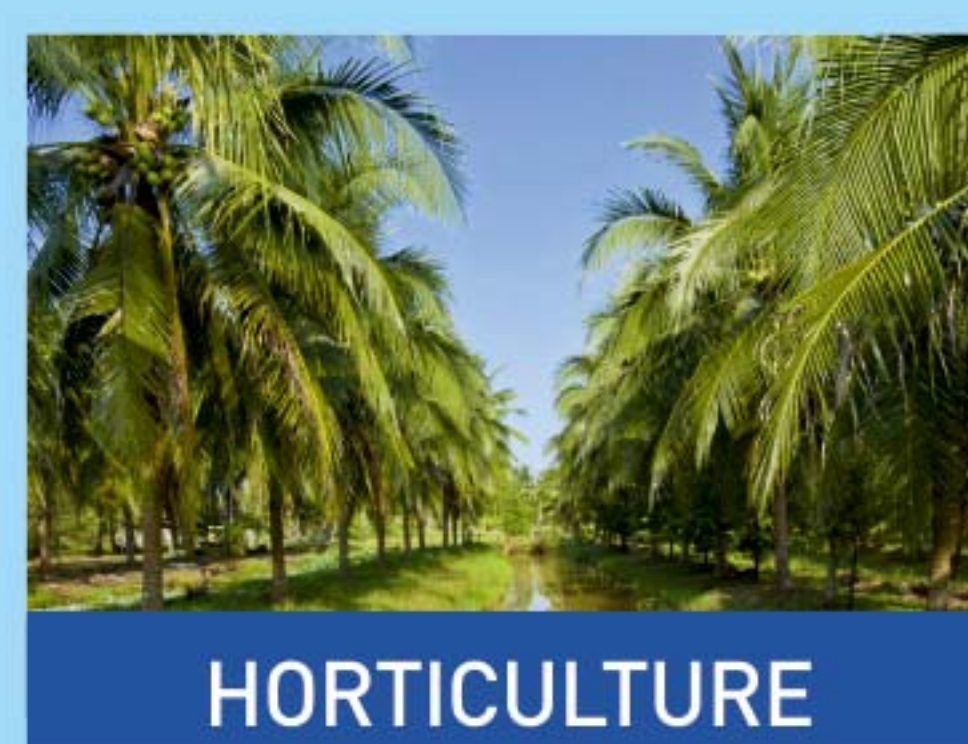
## APPLICATIONS



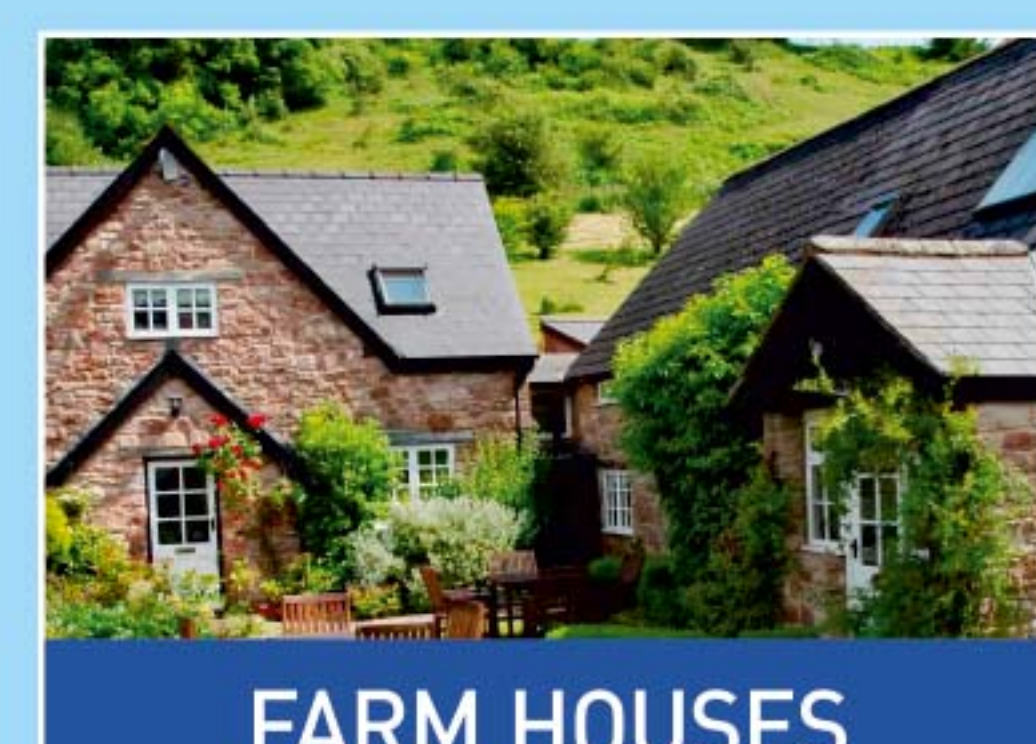
AGRICULTURE



APARTMENTS



HORTICULTURE



FARM HOUSES



# SOLAR STREET LIGHTS



## DESCRIPTION

Solar street lights are raised light sources which are powered by photovoltaic panels generally mounted on the lighting structure or integrated in the pole itself. The photovoltaic panels charge a rechargeable battery, which powers a fluorescent or LED lamp during the night.

## SALIENT FEATURES

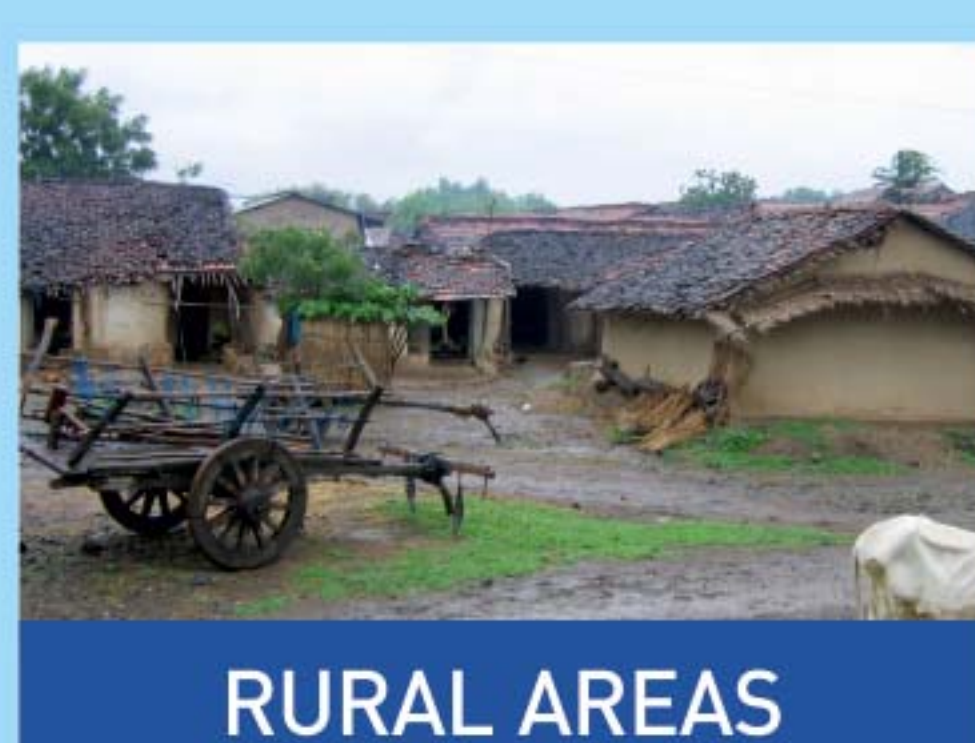
- Microprocessor based charge controller
- Dawn to Dusk Automatic On/Off
- Seoul LED with 120 Lumens
- Ip-65 Enclosure Protection
- Over Charge, Deep discharge protection
- Reverse Polarity Protection
- Temperature compensated charging for battery

## SPECIFICATIONS

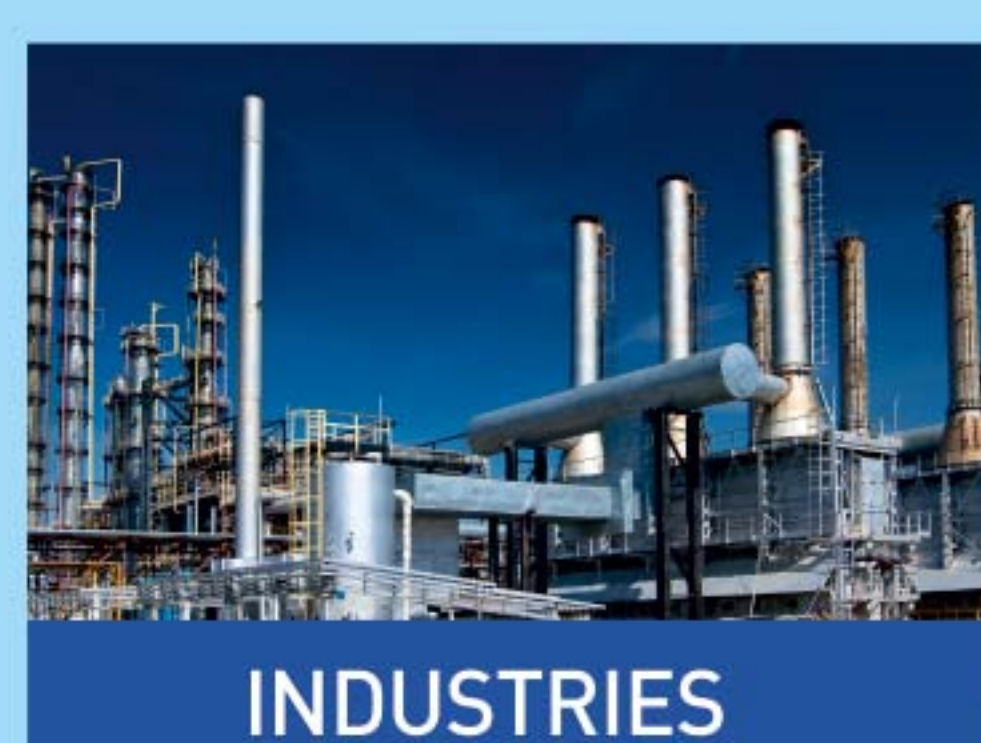
- Panel - 40 W - 60 W MNRE approved, high efficiency, mono/multi crystalline silicon cells.
- 7.2 W - 30 W LED Luminaire lights with transparent acrylic cover,
- MS pole with pedestal/mounting accessories
- sealed maintenance free batteries
- Automatic On/Off operation with charge controller



## APPLICATIONS



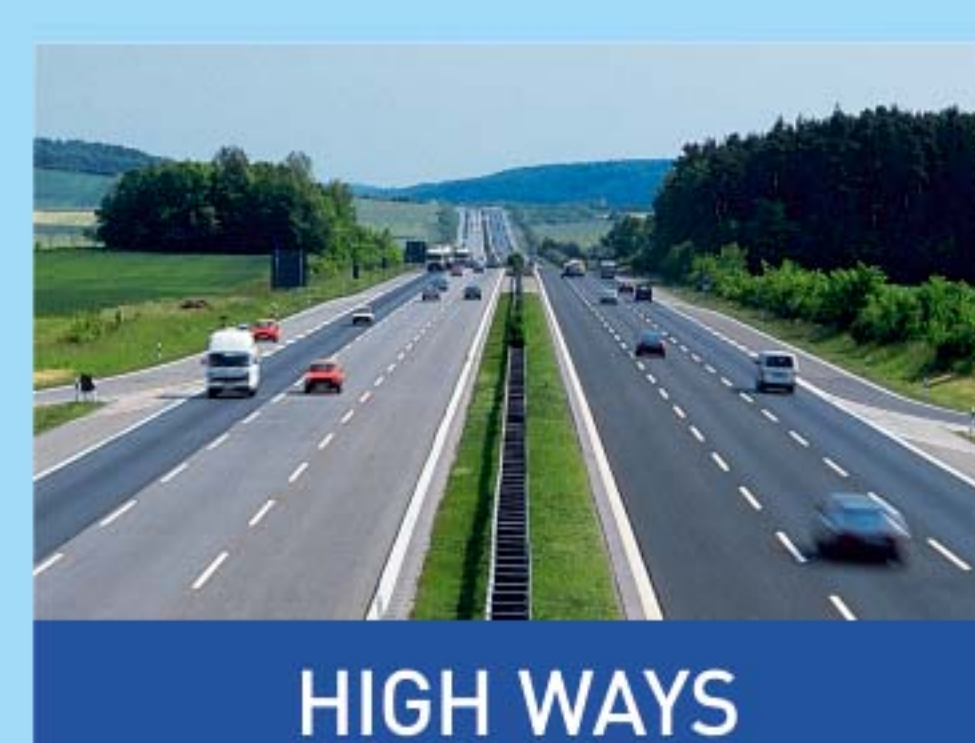
RURAL AREAS



INDUSTRIES



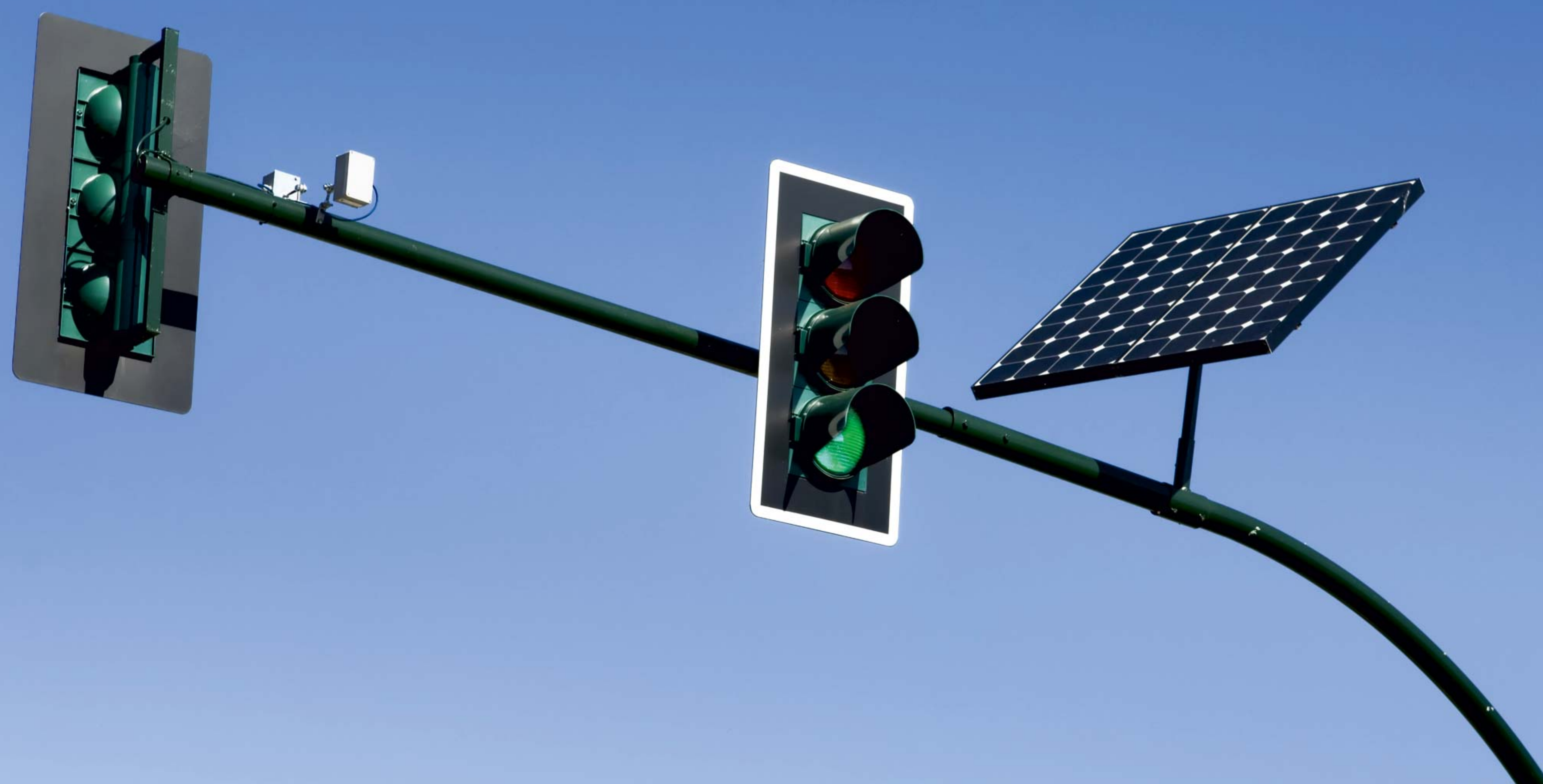
RESORTS



HIGH WAYS



# SOLAR SIGNALS



## DESCRIPTION

In order to fulfill the ever-changing requirement of prestigious clients, we are manufacturing, supplying, trading and wholesaling a comprehensive range of Traffic Signal Controller. These traffic signal controllers are manufactured by the experts at par with the international quality standards & norms. Along with this, our offered range of traffic signal controllers is highly appreciated among the clients for its remarkable features such as sturdy construction, easy installation and excellent functioning.

## SALIENT FEATURES

- Microprocessor based charge controller
- Dawn to Dusk Automatic On/Off
- Seoul LED with 120 Lumens
- Ip-65 Enclosure Protection
- Over Charge, Deep discharge protection
- Reverse Polarity Protection
- Temperature compensated charging for battery
- Working hours: 12 / 24 hours
- Working voltage: 12 V DC
- Solar panel: 12V DC - IEC CE certified
- Battery: Inbuilt maintenance free
- Visibility: > 500 meters
- Accessories: Solar panel stand, Lamp fixing clamps
- Prescribed pole height: 4 meters



## APPLICATIONS

- Highway intersections.
- At accident prone zones.
- At railway crossing.
- At access controlled location / check posts.
- Industrial, school, hospital, market, office zones etc.
- Road divider, under-construction sites and police barrier.
- At low traffic road crossings as caution signals



# SOLAR BLINKERS



## DESCRIPTION

MARS Solar 360 offers its clients the solar blinkers which are LED based. They have blinking cycle of Blinking mode 1 sec & Off mode for 1 sec. They are generally used as a symbol of some warning. These blinkers are available in Amber, Red colour. This Solar Road Safety Warning Blinker uses solar energy to operate the signal. So there is no need of Electricity supply. The whole assembly includes Solar Panel, Frame for Solar Panel, Traffic Signal Blinker, Wire Harness, Charge Controller, Battery, Battery Box, Signal Pole etc. Once you have establish Solar Traffic warning Blinker it lasts for many year.

## SALIENT FEATURES

- Microprocessor based charge controller
- Dawn to Dusk Automatic On/Off
- Seoul LED with 120 Lumens
- Ip-65 Enclosure Protection
- Over Charge, Deep discharge protection
- Reverse Polarity Protection
- Temperature compensated charging for battery
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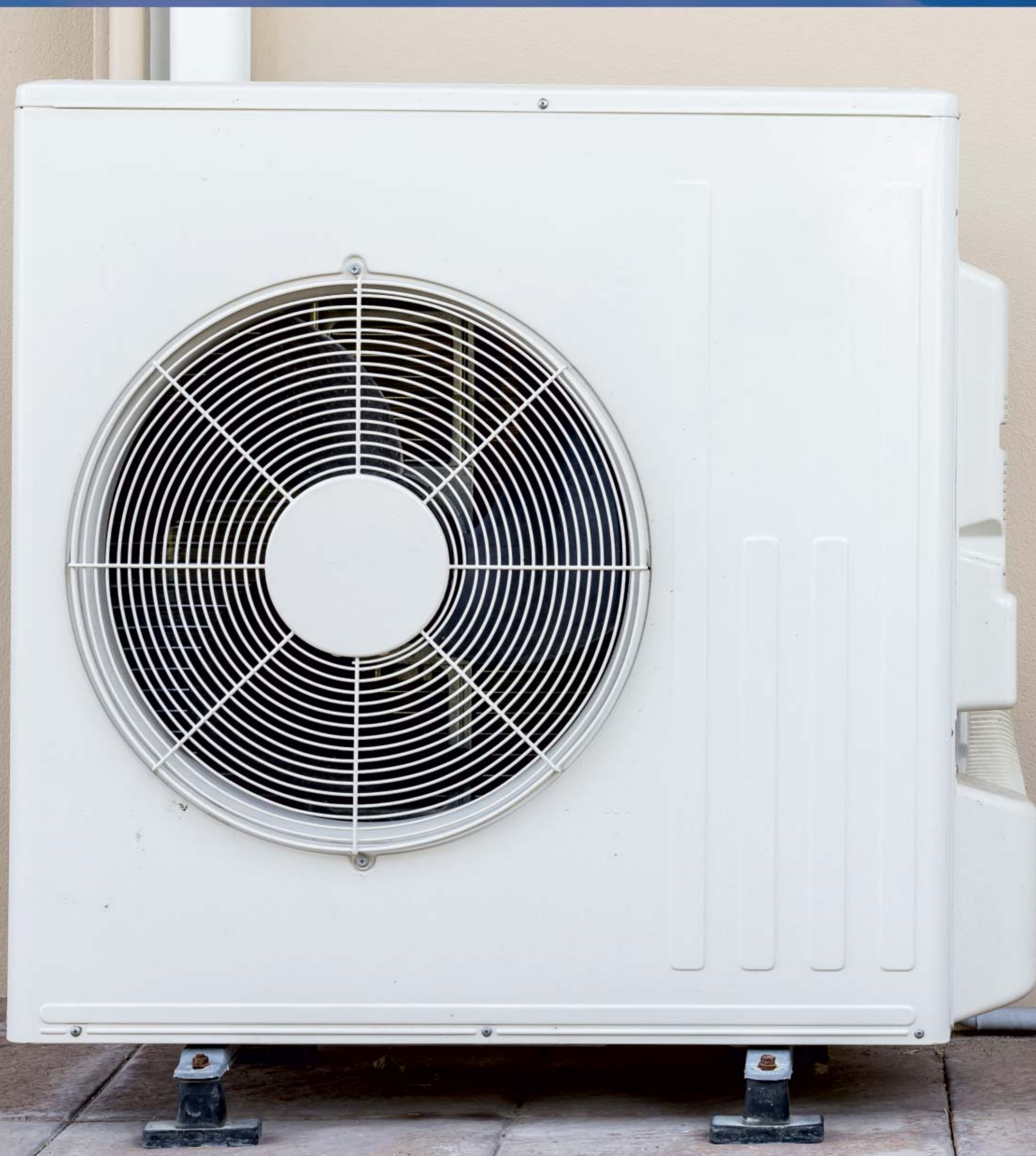
## APPLICATIONS

- Highway intersections.
- At accident prone zones.
- At railway crossing.
- At access controlled location / check posts.
- Industrial, school, hospital, market, office zones etc.
- Road divider, under-construction sites and police barrier.
- At low traffic road crossings as caution signals



# SOLAR

## WATER HEATER WITH HEAT PUMP



### DESCRIPTION

Mars Solar 360 having the solar hybrid system that synchronize the solar water heaters with the Heat pump. Which provides instant hot water for the consumers. We are highly specialized for this type of hybrid system. When synchronizing the heat pump with solar water heaters the consumption of power will be reduced. Heat pump water heaters use electricity to move heat from one place to another instead of generating heat directly. Therefore, they can be two to three times more energy efficient than conventional electric resistance water heaters.

### SALIENT FEATURES

- Automated Operation
- Glass enamel coated tank
- Anti Freezing and Efficient heating
- Glycol Water based heat transfer fluid
- Helical coil heat exchanger( For Solar and Heat Pump Circuit)
- Heat Pump for Air source
- High efficient circulator pump
- Sophisticated electronic controller for solar circuit and heat pump
- Easy cascading for higher volume of water

### SPECIFICATIONS

- Available capacity 3.6 to 19.3 kW
- Total outlet water temperature 60° C
- Power 220 V / 380 V
- Hydrophilic aluminium type Evaporator
- R417A Type Refrigerant
- Stainless steel / Powder coated steel - Cabinet

### APPLICATIONS



VILLAS



APARTMENTS



HOSTELS



HOTELS/RESORTS



HOSPITALS





## PUMPS





# PUMPS

## SEWAGE SLUDGE & SUBMERSIBLE DE-WATERING PUMPS



### DESCRIPTION

These pumps are available with different materials of construction and features a multitude of applications in waste water handling and treatment. Sewage pumps are perfectly powered by motor designed to deliver optimal performance and to withstand vagaries of weather and power fluctuation.

### SALIENT FEATURES

- Tough ABS construction
- Wear-résistance shaft and impeller
- Excellent cooling of the motor enables the pump to operate even when it is partially submerged
- Automatic operation with start/stop float switch and manual operation
- Supplied with manpower plug and self-seal fitting
- Protection IP 68

### SPECIFICATION

- |                                              |                                                             |
|----------------------------------------------|-------------------------------------------------------------|
| • Power Range Single Phase : 1.0 HP – 3.0 HP | Single Channel / Closed Multi Channel / Open Single Channel |
| • Three Phase : 7.0 HP – 87 HP               | • Motor Type Dry (Rewindable)                               |
| • Speed 3950 rpm                             | • pH Value 6 to 12                                          |
| • Versions A.C. Single Phase 220 V, 230 V    | • Head Maximum upto 247 ft                                  |
| • A.C. Three Phase 460 V, 465 V              | • Maximum flow upto 2500 US gpm                             |
| • Type of Duty S1 (Continuous)               | • Liquid Viscosity 1 mm / S                                 |
| • Degree of Protection IP 68                 | • Liquid Density 1 kg/dm                                    |
| • Insulation Class B / F                     | • Maximum Liquid Temperature 104 F                          |
| • Impeller Type Vortex / Closed              | • Delivery Size 2 1/2 to 6                                  |

### APPLICATIONS



APARTMENTS



COMMERCIAL BUILDINGS



HOTELS/RESORTS



SEWAGE TREATMENT



INDUSTRIAL WASTE WATER



# PUMPS

## PRESSURE BOOSTING PUMP



### DESCRIPTION

These pumps are powered by a totally enclosed fan cooled. A.C. induction motor, suitable for continuous Duty. Motor stator is made of low watt loss steel lamination assembled under pressure and rigidly locked in the frame. Dynamically balanced rotor ensures vibration and noise free operation. Shaft of Ample size made of quality steel and precisely ground is used for transmitting rated Horse Power. Thermal over load protector is incorporated in all single phase motors.

### SALIENT FEATURES

- High operating efficiency
- Precise parts for hygiene
- Good suction lift and operating pressure
- Dynamically balanced rotating parts
- Balanced & Rigid construction
- Available MOC: S, N & C

### SPECIFICATIONS

- Power Range(kW) - 0.5 HP – 60 HP
- Speed - 3450 rpm
- Versions:
  - A.C. Single Phase - 230 V, 60 Hz
  - Permanent Split Capacitor (PSC)
  - Inbuilt Thermal Overload Protector
  - A.C. Three Phase - 460 V, 60 Hz
- Duty - S1 (Continuous)
- Degree of Protection - IP 55 (Optional IP44, IP54)
- Class of Insulation - 'F' / 'B'(Optional)
- Flange Type - Round (Optional : PJE, Oval)
- Max. Flow- upto 530 US gpm
- Max. Head - 980 ft
- Max.Suction Lift - 23 ft
- Sealing Type - Mechanical Seal (Cartridge Type)
- Max.Liquid Temperature - -4°C to +248°C
- Max.Ambient Temperature - 104°C
- Max.Opearting Pressure - 427 psi
- Flanch Standard - DIN
- Pipe Connections - DN 25, DN 32, DN 40, DN 50, DN 65, DN 80, DN 100

### APPLICATIONS



VILLAS



APARTMENTS



COMMERCIAL BUILDINGS



HOTELS/RESORTS



HOSPITALS



# PUMPS

## HYDRO PNEUMATIC SYSTEM



### DESCRIPTION

Owing to our countable experience of the industry, we have been able to integrate supply and install a range of Hydro Pneumatic Systems. Congruent with industry laid guidelines, these systems are available in various specifications and also in customized range to meet the specific needs of the customers. Our teams make use of advanced machines and high grade material procured from the reliable vendors in the market in manufacture them.

### SALIENT FEATURES

- Tough ABS construction
- Wear-resistance shaft and impeller
- Excellent cooling of the motor enables the pump to operate even when it is partially submerged
- Automatic operation with start/stop float switch and manual operation
- Supplied with manpower plug and self-seal fitting
- Protection IP 68

### SPECIFICATION

- Power Range Single Phase : 1.0 HP – 3.0 HP
- Three Phase : 7.0 HP – 87 HP
- Speed 3950 rpm
- Versions A.C. Single Phase 220 V, 230 V
- A.C. Three Phase 460 V, 465 V
- Type of Duty S1 (Continuous)
- Degree of Protection IP 68
- Insulation Class B / F
- Impeller Type Vortex / Closed
- Single Channel / Closed Multi Channel / Open Single Channel
- Motor Type Dry (Rewindable)
- pH Value 6 to 12
- Head Maximum upto 247 ft
- Maximum flow upto 2500 US gpm
- Liquid Viscosity 1 mm / S
- Liquid Density 1 kg/dm
- Maximum Liquid Temperature 104 F
- Delivery Size 2 1/2 to 6

### APPLICATIONS



VILLAS



APARTMENTS



COMMERCIAL BUILDINGS



HOTELS/RESORTS



HIGH RISE BUILDINGS



# HOT WATER CIRCULATING PUMP



## DESCRIPTION

Waiting for Hot Water. It's a common problem: turn on the faucet or shower for hot water, then wait for it to arrive. In fact, the wait can be minutes in larger homes with multiple bath rooms and long runs of pipe between the plumbing fixtures and the water heater! With our Domestic Hot Water Recirculating System in place, there's no more wait. Instant hot water!

Mars solar aqua 360 supply hot water circulation pump is to ensure that hot water is always available as close to the consumption point as possible, in order to reduce cold water wastage and to increase comfort of living.

## SALIENT FEATURES

- Vacation Function - After 36 hours of inactivity the pump will automatically TURN OFF and remain off until hot water usage is detected again.
- Exercise Function - While in vacation mode the pump will cycle on once every 7 days and run for 10 seconds to prevent any corrosion or scale buildup.
- Factory installed 6' line cord Remote Sensor Included
- Optional IFC® (Integral Flow Check)
- Quiet, Efficient Operation
- Unique Replaceable Cartridge Design-Field Serviceable
- Self-Lubricating
- No Mechanical Seal
- Unmatched Reliability Maintenance Free
- Comfort and Convenience
- Once the pump is set to the desired operating mode it never needs to be set again.
- Hot water is always available in seconds.

## Efficiency

Smart operation maximizes hot water, comfort and energy savings.

## Reliability

The SmartPlus provides quiet operation and industry leading electronics with our circulator proven performance & dependability.

## APPLICATIONS



VILLAS



APARTMENTS



HOSTELS



HOTELS/RESORTS



HOSPITALS



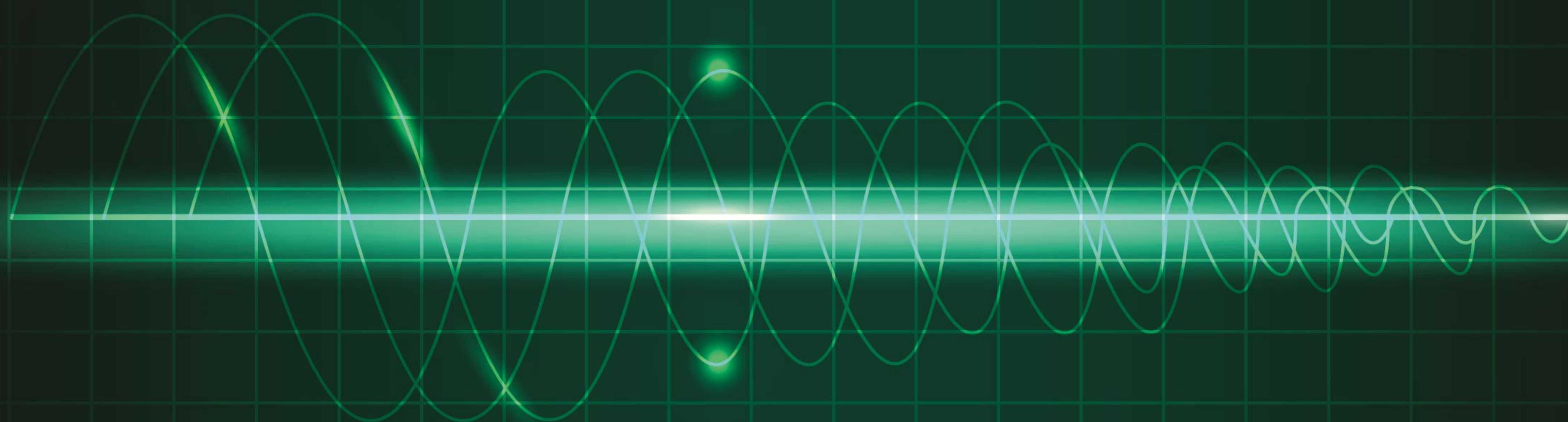


## POWER PRODUCTS



# VOLTAGE STABILIZER

## AIR COOLED STABILIZER



### DESCRIPTION

Mars Solar Aqua 360 deals with wide range of Air Cooled Servo Stabilizers, which is made in accordance with various international standards. These Centralized servo stabilizers also provide protection from overload at the input. Leveraging on our years of experience in this domain, we can provide the servo stabilizers as per market requirements

### SALIENT FEATURES

- No potentiometer adjustments
- All parameters can be modified using the keypad in the front panel
- Set input voltage band
- Set output voltage
- Set output voltage sensitivity
- Output over / under voltage cut-off
- Input over voltage / under voltage cut-off
- Over load cut-off
- Trip time delay adjustments with variable setting
- Manual and auto start facility
- Output start and stop facility

### SPECIFICATION

- Capacity 3 - 500 KVA
- Input Voltage Range
  - Range 1 : 295 V - 465 V
  - Range 2 : 340 V - 480 V
  - Range 3 : 360 V - 460 V
- Output Voltage - 380/400/415 V+ 1% set
- Nature of cooling - Natural air cooled upto 150 KVA & forced air cooled above 150 KVA
- Efficiency - >98%
- Servo Motor Drive - Rugged AC step synchronous motor
- Operating Temperature - 0-40 degree C



### APPLICATIONS



VILLAS



APARTMENTS



HOSTELS



HOTELS/RESORTS



HOSPITALS



# VOLTAGE STABILIZER

## OIL COOLED STABILIZER



### DESCRIPTION

We are enlisted amongst the reckoned names in the industry, offering a wide range of 45 KVA-500 KVA Oil Cooled Servo Voltage Stabilizer. This Centralized servo stabilizer also provides protection from overload at the input.

### SALIENT FEATURES

- No potentiometer adjustments
- All parameters can be modified using the keypad in the front panel
- Set input voltage band
- Set output voltage
- Set output voltage sensitivity
- Output over / under voltage cut-off
- Input over voltage / under voltage cut-off
- Over load cut-off
- Trip time delay adjustments with variable setting
- Manual and auto start facility
- Output start and stop facility

### SPECIFICATION

- Capacity 45 - 500 KVA
- Input Voltage Range
  - Range 1 : 295 V - 465 V
  - Range 2 : 340 V - 480 V
  - Range 3 : 360 V - 460 V
- Output Voltage - 380/400/415 V+ 1% set
- Nature of cooling - ONAN
- Efficiency - >98%
- Servo Motor Drive - Rugged AC step synchronous motor
- Operating Temperature - 0-40 degree C

### APPLICATIONS



VILLAS



INSTITUTIONS



COMMERCIAL BUILDINGS



HOTELS/RESORTS



HOSPITALS



# ACTIVE HARMONIC FILTER



## DESCRIPTION

Certain equipment such as drives, inverters, UPS, arc furnaces, transformers, filters and discharge lamps generate harmonics. The harmonics strain the network. Voltage distortion overload cables, cause failures of relays and circuit breakers and disturb many types of equipment such as computers, telephones etc.. Implemented by experienced specialists, the harmonic filtering solutions eliminate most of the power quality problems.

## SALIENT FEATURES

- Internal CAN communication
- Employ high speed IGBT in power circuit
- Closed loop active filter with source current sensing
- High attenuation
- Programmable selective harmonic elimination
- PF compensation, leading as well as lagging
- Helps in achieving the compliance with power quality regulation like IEEE 519
- IEC / EN 62040 – 2 category C3

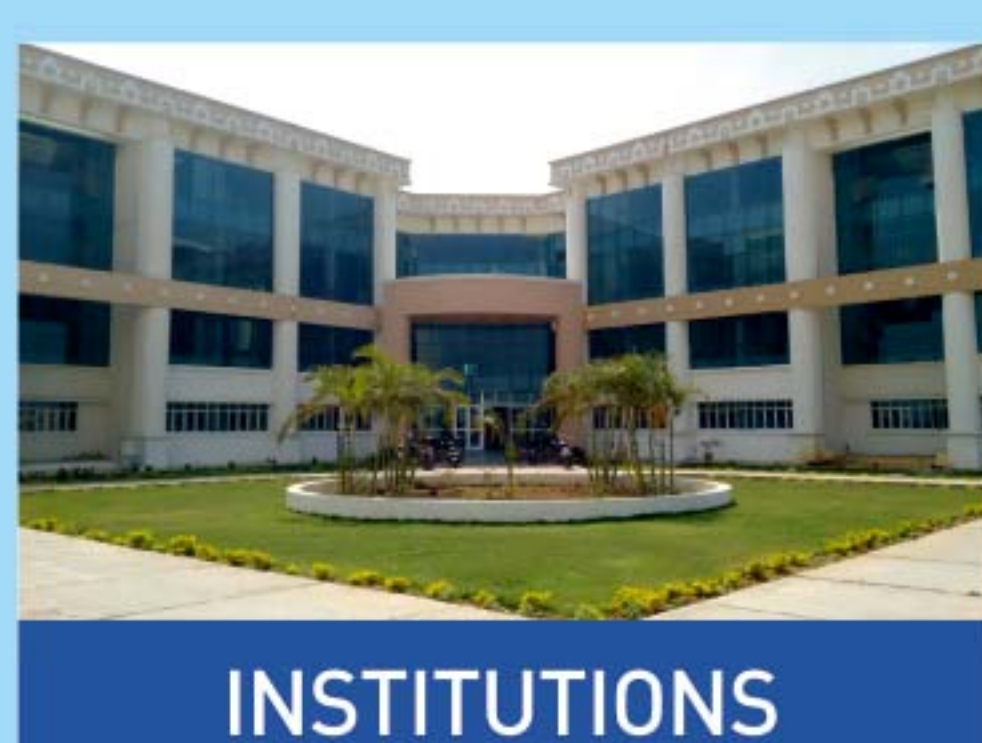
## SPECIFICATION

- RATING(A), 30, 60, 75, 100, 150, 200, 225, 300, 400, 600
- Utility connection method - 3 phase 4 wire
- Filter power loss - Up to 3% of equipment rating
- Cooling - Forced air cooling
- Harmonic range - 2 to 50 order
- Operating temperature - 0 to 40 degree c
- Storage temperature - 0 to 70 degree c

## APPLICATIONS



VILLAS



INSTITUTIONS



COMMERCIAL BUILDINGS



HOTELS/RESORTS



HOSPITALS



## ONLINE UPS



### DESCRIPTION

Mars solar aqua 360 deals with the best in industry Online UPS ranging from 1KVA to 500 KVA. Online UPS is designed and developed to provide continuous power supply to small and large scale enterprises and excellent power backup option for areas with chronic power shortage.

### SALIENT FEATURES

- High frequency and dual conversion on line technology
- Wide input voltage range
- Advanced PFC technology
- True sine wave output with less than 3% THD
- Self diagnosis at UPS startup
- Advanced battery management (ABM)
- Automatically charging batteries in ups off mode
- Lighting and surge protection
- Digital control technology
- High efficiency

### SPECIFICATION

- Capacity - 1 KVA - 50 KVA
- Input Volt  
160 V to 270 V Single phase  
415 v + 15 % -20 % three phase input
- Output Volt - 230 V AC single phase
- Waveform - TRUE sine wave
- Overall efficiency - 90 %
- Short circuit - UPS output turn alarm

### APPLICATIONS



VILLAS



INSTITUTIONS



COMMERCIAL BUILDINGS



HOTELS/RESORTS



HOSPITALS



# SINE WAVE INVERTER



## DESCRIPTION

Mars solar aqua 360 deals with best in industry sine wave invertors ranging from 1 KVA to 500 KVA. Sine wave inverter is designed and developed to provide continuous power supply in small and large scale enterprises and in areas with chronic power shortage for excellent power back up.

## SALIENT FEATURES

- Optimum functionality, longer service life, reliable operation
- Intelligent charge controller
- Reduces cost of operations and maintenance of generator set
- Stable and adequate supply of electricity
- Optimal use of all available energy resources

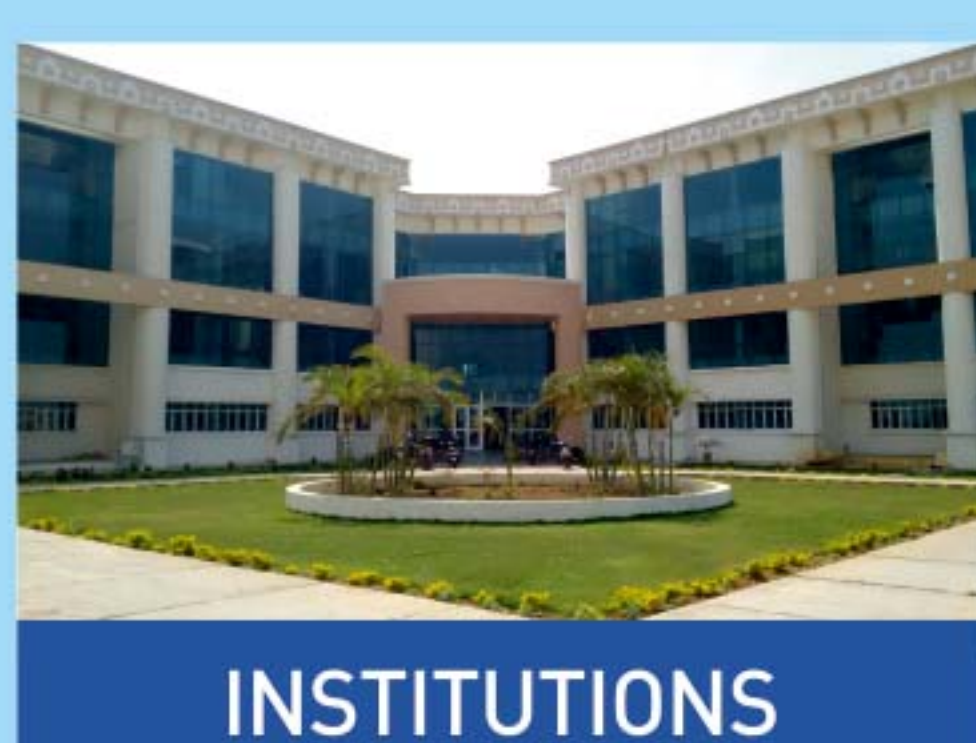
## SPECIFICATION

- Capacity - 1 KVA - 25 KVA
- Input Volt
  - 160 V to 270 V Single phase
  - 415 v + 15 % -20 % three phase input
- Output Volt - 230 V AC single phase
- Waveform - TRUE sine wave
- Overall efficiency - 90 %
- Short circuit - UPS output turn alarm
- Batteries - 12V/24V (SMF/Tubulor)

## APPLICATIONS



VILLAS



INSTITUTIONS



COMMERCIAL BUILDINGS



HOTELS/RESORTS



HOSPITALS



## SERVICES AND ANNUAL MAINTENANCE CONTRACT

### INSTALLATION SERVICES

- Solar products - On grid system, Off grid system, Solar grid tie Inverter, Solar PCU, Solar panels, Solar street light, Solar Blinker, Solar fencing, Solar signal, Solar water Heaters.
- Power products - Online UPS, Combo UPS, AVR type UPS, Batteries, Stabilizer, Active Harmonic filter
- Aqua products – Water purifier, Water dispenser, RO plant, STP, WTP, ETP, Softener plant, Rain water harvesting system.

### SERVICES

- Servicing of any of your existing solar products- On grid system, Off grid system, Solar grid tie Inverter, Solar PCU, Solar water heaters. All brands of solar water heaters service, spares supply and maintenance.
- Power products -Servicing of any of your existing power products- Online UPS, Stabilizer, Harmonic filter Combo UPS, AVR type UPS & Batteries - Service & Replacement.
- Aqua products – Softener plant, Automatic Water level controller, Water purifier, Water dispenser, RO plant(Service, Spares supply & Chemical Cleaning), Upgrading of existing STP, WTP, ETP, Swimming pool & Hydro Pneumatic System

### AMC SERVICES

- Solar products - Solar On grid power generating system, Solar Off grid power generating system.
- Power products - Online UPS, Combo UPS, AVR type UPS, Batteries, Stabilizer, Active Harmonic filter
- Aqua products – RO plant(Domestic & Commercial), Sewage Treatment Plant, Water Treatment Plant, Effluent Treatment Plant.



## ACCESSORIES & CONSUMABLES



MEMBRANES



CARTRIDGE FILTERS



BAG FILTERS



BATTERIES



WATER LEVEL CONTROLLER



FLOAT SWITCH



BOOSTER PUMP



SMPS



PRESSURE GAUGES



ROTAMETER



SEDIMENT FILTER



BLUE FILTER HOUSING



DOSING PUMP



CARBON FILTER



ANTISCALANT



TDS METER



PH METER



RO CLEANING CHEMICALS



STP BIOCHEMICAL



PP FILTER



LED LAMP



PRESSURE SWITCH



PRESSURE TANK



MEMBRANE HOUSING

WE SUPPLY ALL THE ACCESSORIES & CONSUMABLES REQUIRED FOR STP, WTP, RO PLANT (DOMESTIC AND COMMERCIAL ), SOLAR WATER HEATER, SOLAR ON GRID AND SOLAR OFF GRID SYSTEMS







# APPLICATION AREAS



HOTELS/RESORTS



APARTMENTS



HIGH RISE BUILDINGS



SCHOOLS



HOSTELS



INSTITUTIONS



INDUSTRIES



VILLAS



SWIMMING POOLS



HOSPITALS



FARM HOUSES



POULTRIES



DRINKING WATER PLANTS



WORSHIP PLACES



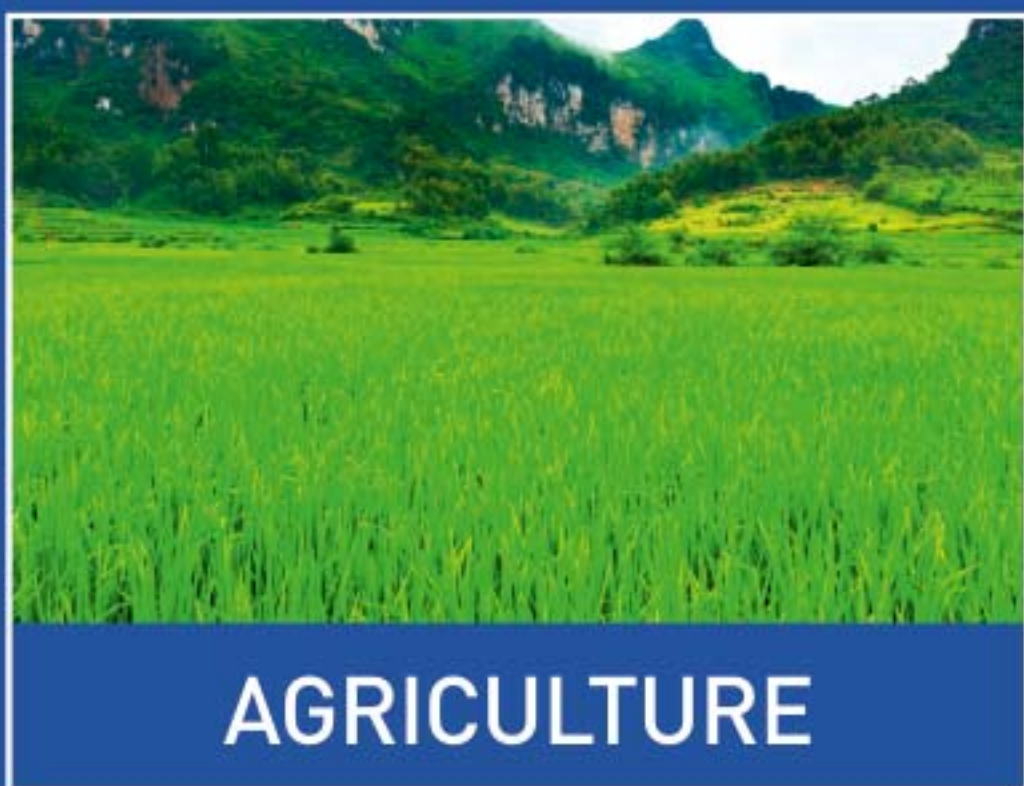
SEWAGE TREATMENT



COMMERCIAL BUILDINGS



MEGA KITCHEN



AGRICULTURE



AUTOMOBILE INDUSTRY



IT PARKS

## OUR VALUABLE CLIENTS

|                                                                                                                                                 |                                                                                                                                  |                                                                                                                    |                                                                                                                                                                                     |                                                                                                                              |                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>SUGUNA<br>FOODS<br>Breeding Trust, Growing Together      | <br>SAKTHI<br>MASALA                          | <br>PSG                        | <br>Sri Ramakrishna<br>Multi-Speciality Hospital<br>Medical Service: SNR Sons Charitable Trust | <br>lemon tree<br>HOTELS                | <br>MARUTI<br>Dealers                                                            |
| <br>HOTEL<br>Junior Kuppamma<br>1960<br>Non Vegetarian & Veg | <br>hari bhavanam<br>Trusted Taste Since 1971 | <br>Celebrate life<br>RATHINAM | <br>VISWA & DEVJI<br>Diamonds Since 1950                                                       | <br>Century Apparels<br>Private Limited | <br>CHINNAYA INTERNATIONAL<br>RESIDENTIAL SCHOOL<br>KNOWLEDGE SERVICE EFFICIENCY |

MARS  
SOLAR AQUA 360  
Manufacture | Integration | Solutions | Service

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RO PLANT | SOLAR WATER HEATERS | STP | ETP | WTP | SOLAR ON GRID | SOLAR OFF GRID | SOLAR PUMPING | PUMPS | HYDRO PNEUMATIC SYSTEM  
UPS | STABILIZER | HARMONIC FILTER