



MURICKENS GROUP

www.murickens.com
SINCE 1975



Our moto: "Quality, Stability and Reliability"
Solar & Power Saving Products

OUR QUALITY APPROVALS



MURICKENS GROUP

ISO 9001: 2008

and

MNRE Certified CPRI Approvals RESCO Grading Company



About Us

The name of our firm has been derived from well-known ancient family name 'MURICKEN' hailing from Muttuchira in Kottayam district of Kerala State. To keep up the prestigious and traditional value of Muricken family, we always maintained exotic quality, prompt service, impressive dealing in every aspect of manufacturing and marketing of our products. Our sincere and relentless hard work paved the way for our incredible success and progress in the last four decades. We made a humble beginning in 1975 at Kaduthuruthy, northern region of Kottayam district. In 1992 we stepped into real estate business as a brand name '**Murickens Group**', later we started manufacturing Electronics and Electrical products in the name of 'FLYLINE' a registered Trademark, the product includes Flyline Inverter, Online and Off-line UPS, 110 volt step down stabilizer and Tubular Batteries. After successful stories of our electric products in 'FLYLINE' trademark, we introduced various products under another registered trademark 'MG', which includes Deep Freezer, Servo Voltage Stabilizer, Mobile Mortuary, Mortuary Chamber and Solar Water heater.

In 2000, we stepped into Solar energy field, products includes Flyline Solar Hybrid Inverter, Solar Standalone Inverter, Solar Street light or Garden light, Solar Charge Controller, Solar Mono/ Poly crystalline panels and Solar Grid Tie Inverter. Our products are marketed by 'Murickens Marketing System'. Our motto is to offer what is best in the market to satisfy our customers. Apart from our head office in Kaduthuruthy, Murickens Group has direct branch offices at Kottayam and Ernakulam, also has consulting officials even in USA. Now our company has almost all international Quality Standards like ISO Certification, RESCO grading, CPRI approvals and MNRE approvals.

Websites

www.murickens.com

www.solarkerala.com

www.keralarealestate.net

www.solarchargingcontroller.com

www.inverterkerala.com

www.servostabilizerkerala.com

www.freezerkerala.com

www.realestatekerala.in

www.upskerala.com

www.solarlighters.com

www.keralapropertysale.com

www.airconditionerkerala.com

www.solarelectricityplant.com

www.solarpanelmanufacture.com

www.solarhotwaterequipment.com

www.tourismpackagekerala.com

www.solarinverterkerala.com

www.solarwaterheaterkerala.com

www.renewableenergykerala.com

www.mobilemortuarykerala.com

www.muricken.com

www.keralainverter.com

www.keralahouse-land.com

www.voltagestabilizerkerala.com

www.stepuptransformerkerala.com

www.solarair-conditioner.com

www.solarpowerphotovoltaiccell.com

www.solarpanelkerala.com

www.keralaups.com

www.kottayamkerala.com

www.ernakulamkerala.com

Let's Go Green, Let's Win Together

**RANGE OF MURICKENS
INTERNATIONAL QUALITY
PRODUCTS**

- ☞ Flyline Solar Hybrid Inverter:
- ☞ Flyline Solar off Grid Inverter:
- ☞ Flyline Solar on Grid Inverter:
- ☞ MG Solar Water Heater
- ☞ Flyline Solar LED Street Light
- ☞ MG Mobile Mortuary
- ☞ MG Mortuary Chemper
- ☞ MG Deep Freezer
- ☞ MG Servo Voltage Stabilizer
- ☞ Flyline 110 Volt Step-down Stabilizer
- ☞ Flyline On-line and Off-line UPS
- ☞ Flyline Solar Panel
- ☞ Flyline Tubular Battery
- ☞ Flyline Solar Charging Control
- ☞ Flyline Inverter

**We provide onsite
Sales & Service Support all over Kerala**

SOME MAJOR SOLAR PROJECTS / CLIENTS

1. International Airport – Karipur
2. Vallarpadam –Chathiyath Road – Kochi
3. Kerala Agricultural Research University , Malapuram
4. 7th Battalion Military Camp
5. ISRO Sreeharikotta
6. Marine Fisheries Department India, Kochi
7. Vallarpadam Container Terminal –Kochi
8. Dental College –Trivadurm
9. Forest Department –Thiruvananthapuram
10. Govt.Dental college ,Trivandrum
11. District Hospital – Idukki
12. MG University , Kottayam
13. Consumer Court – Kottayam
14. Birla Insitute of Technology & Science
15. Munnar Gram Panchyath – Munnar



Electricity Anywhere Anytime



Solar Hybrid Inverter

Muricken's Group is one of the well reputed Flyline Solar UPS manufacturers in Kerala. It is a fully automatic solar power conditioner capable of working both in grid power as well as solar power (hybrid system) and we have an experience of 15 years in production and installation of solar inverters in Kerala. The products are manufactured with best quality raw materials to assure our authenticity, reliability and use of uninterrupted Solar power supply to save money and electrical equipments. Normally ON/OFF switch is provided in the front panel and changeover switch between solar charger and mains mounted at the back. When the solar charger is active for charging, the battery the inverter will disable mains charger. Our Flyline off-grid inverters are integrated with built in solar charge controllers which reduce the solar power loss and support maximum efficiency. It is an ideal system for domestic loads like Lights, Fan TV, Fridge, Iron box, Mixer, Washing machine, water pump etc.

FLYLINE SINE WAVE SOLAR UPS CUM INVERTER FEATURES- (Three in one system):

► Flyline pure sine wave solar system is a solar charged automatic inverter that can be used for lighting up a house as well as powering computers and other electronic equipments that need uninterrupted power supply. ► Separate mains on/ off charger switch. ► Works with the power of solar power/AC power (KSEB line), the best way to save money and nation by using natural resource. ► Provision for connecting KSEB current and solar power. ► Attractive Designs. ► Pollution free type. ► Single Switch Operation. ► DSP based very low component cost design. ► Single sided PCB, easy to assemble without any SMD components. ► Auto resetting. ► Protection from lightening, high/Low Voltage Trip. ► Over Load Protection. ► Over Charge and Deep Discharge cut off. ► Independent Digital display for Solar or KSEB charging voltage, main voltage, inverter voltage, load etc. ► Solar charger LCD display-panel voltage, battery voltage, out current, solar in use, direct mains, saved unit - only 36 and above volt system. , ► Audio and Visual Indicators. ► Can be connected to the existing wiring. ► Bridge type center aligned switching MOSFET based topology. ► No husking sound. ► It is a fully automatic built-in charging control system, no need of any manpower. ► The Special feature of the system is, when the battery is full and there is sufficient sunlight the system will automatically cut the main line off (KSEB Line) and connect the solar system. This feature is applicable only if you use the recommended capacity of solar panel and solar inverter. ► The main advantage of our built in solar charger is floating type and once it fully charges the battery, it goes to trickle charging. This will provide more battery life and can utilize 100 % efficiency of solar panel power. ► The first preference is for solar charging and when the battery is low and there is no sufficient sunlight, there is an option for manual or automatic grid charging through separate switch. ► ISO: 9001 -2008 Certified solar power conditioner. ► An ideal unit for part time power supply with low investment.

FLYLINE HYBRID SOLAR PCU WORKING MECHANISM:-

System priority Stage: - solar-battery-grid

- 1) When solar energy is sufficient total out put load will operate on solar Inverter. Excess solar power will charge batteries.
- 2) When solar energy is weak then inverter will take DC source from batteries to compensate the out put load.
- 3) When the battery discharge level reaches 11.5 volt or below, the out put load is shifted to grid and the batteries are charged with the help of solar power only.
- 4) At Day time when each battery becomes 13.5 v the output load again shift to solar Inverter.
- 5) In 48 and above DC volt system of solar inverter - At night or when there is no sunlight the batteries reach 70% discharge level (30 % kept as a buffer) the out put load is shifted to grid without any change over time. (Each battery discharging level become 11.5 v)
- 6) In 12 and 24 volt DC system of solar inverter -At night or when there is no sunlight, the out put load is shifted to grid and the battery back-up is used only when there is a grid failure.
- 7) After shifting the load to grid there is an optional on -off switch (manual) to charge the battery from grid up to 13.5 volt .
- 8) At night During changeover of load from battery backup to grid supply (i.e. 70 % battery discharged) and if grid supply is absent then load is shifted to solar inverter to use buffer battery backup (i.e balance 30 %)
- 9) By using solar power the solar charger high cut-off is 14.5 V of each battery.



**“Best way for solar energy utilisation.
Simple system with low investments,
Ideal for home and small shops for a
part time function”**





Solar Standalone Power Plant

Do you want to build a fully independent, reliable power house at your home that has the efficiency to light whole of your house? Or get KSEB and load shedding, FLYLINE introduces Stand Alone Solar Inverter. It is a fully solar dependent inverter that is fully automatic which can also be connected with the main KSEB line. It is an effective power source in places like deserts, islands, ships where another power plants are not possible. Flyline Solar Stand Alone Lighting system is a solution for Big Houses, Bungalows, Institutions, Hotels, Resorts & Industries. This system can be designed to power to AC loads and Back up hours. It is important that you install enough panels and batteries as per your power requirements. A Typical Stand Alone Lighting system consists of the following:- Solar Modules, solar UPS with built in charging controller and batteries. Murickens group have already installed thousands of flyline branded solar power plants all over Kerala since 2000. An experienced installation guidelines Leads to you a trouble free function and get the complete utilization of solar power. There is no need of permission or license form local authorities or government to install this power plant. We use modern technologies in the manufacturing of solar power plants. We are providing MNRE (Ministry of New and Renewable Energy) subsidies for solar products.

FLYLINE STANDALONE POWER UNIT FEATURES:-

► Pure sine wave output. ► ISO: 9001 -2008 Certified solar power conditioner. ► IGBT with German PWM intelligent charging technology.► Work with solar power, the best way to save money using natural resource.► Maintenance Free. ► Attractive Designs. ► Pollution free type. ► Single Switch Operation. ► Fully automatic. ► IGBT based topology. ► Protection from lightening, ► Over Load Protection. ► Over Charge and Deep Discharge cut off. ► Independent Digital display inverter input and out put voltage, load, etc. ► Audio and Visual Indicators. ► Can connect to the existing wiring. ► No husking sound. ► It is a fully automatic built-in charging control or external system, No need of any manpower. ► Provisions for connecting grid power. ► Optional mains charger ON/OFF switch. ► Back-up power support. ► Option for customization of back-up power. ► The Special feature of the system is when we connected to main line - if the battery is full and there is sufficient sunlight the system will automatically cut the main line off (KSEB Line) and connect the solar system. ► Our built in solar charger is floating type and once it fully charges the battery, it gone to trickle charging. This will provide more battery life and can utilize 100 % efficiency of solar panel power.► An ideal unit for day and nights power supply.

FLYLINE STANDALONE SOLAR PCU WORKING MECHANISM:-

System priority Stage - solar-battery-grid

- 1) When solar energy is sufficient total out put load will operate on solar Inverter. Excess solar power will charge batteries.
- 2) When solar energy is weak then inverter is taking DC source from batteries to compensate the out put load.
- 3) When the battery discharge level reaches 11.5 volt or below the out put load is shifted to grid.
- 4) At Day time again each battery become 13.5 v the output load again shift to solar Inverter.
- 5) At night or when there is no sunlight the batteries reach 70% discharge level (30 % kept as a buffer) the out put load is shifted to grid. (Each battery discharging level become 11.5 v)
- 6) After shifting load to grid the batteries are charged from solar energy and if solar energy not sufficient to charge the batteries, then there is an optional on –off switch (manual) to charge the battery from grid up-to 12 volt and full charge volt of 13.5 in each battery.
- 7) By using solar power the solar charger high cut-off is 14.5 V of each battery.
- 8) At night During changeover of load from battery backup to grid supply (i.e. 70 % battery discharged) and if grid supply is absent then load is shifted to solar inverter to use buffer battery backup (i.e balance 30 %)
- 9) When grid returns during which inverter is working on buffer battery backup then the load is shifted to grid & batteries are charged through solar or grid as per logic explained above.



"This is an ideal solar power generating unit to support full power loads for day and night use"





Solar on-grid Inverter

Good news to the people of Kerala. Murickens group introduces Solar based renewable energy is stepping into a new level with the household solar plants benefiting from making free electricity at home or commercial place. In the new scheme the individual household solar plants will give the KSEB board the excess electricity produced from the Flyline solar plant and in return the KSEB will pay you money. It will be possible by the installation of a new KSEB metre which will be provided by the KSEB, when you apply for the approval of Solar plants at home. There will not be any storage in this system so no batteries. In the morning if the electricity produced in the panels are excess the KSEB metre will reverse and take the excess electricity to the line and if the current produced in the panel is less the metre will provide the current needed by reversing the metre. Murickens providing on site installations and commissioning of these units all over kerala up to 100 KVA.

Common Features

DC input voltage up to 1000V
Maximum efficiency of 98%
Internal DC switch
Transformerless
Compact design
Multi MPP controller
MTL - String
Ethernet / RF technology / WiFi



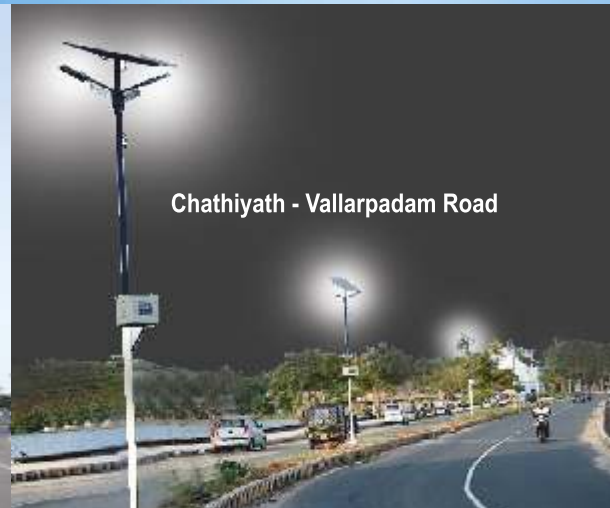
SOLAR STREET LIGHT

Solar DC home light system consists of flyline control system, solar panel and battery. Its capacity depends on your requirement. Solar cells converts the solar light into direct current and charge the battery for storage. The control system controls the whole system taking care of battery over charging cut off, deep discharging cut off, short circuit cut off, over load cut off with visual LED display. It is specially designed to avoid any power loose. No cabling, No electrical hazards, No payment of electric bills. Flyline Solar DC home Power System converts sunlight to 12/24V DC. This unit consists of Fly line LED or CFL lamp with charging control system, solar panel and battery.

FLYLINE SOLAR STREETLIGHT FEATURES

► DC volt out put 12V or 24 V. ► MNRE approved ► German Technology assures the quality of flyline solar garden light. ► ISO 9001- 2008 quality certified product ► Flyline solar luminary cabinet is weather proof and it is Ideal for Streetlight, garden light, Gate light, and park light ► It has got an automatic control system (Dusk to Dawn) ► It is available in 3w, 6w, 9w, 12w, 18w and above. ► Dimmer option after 6 hours. ► By using powerful LED we get good brightness for the light. ► Its power consumption is very low and get very good back up. ► No need of wiring, and hence can forget the hurdles of wiring and its expenses. ► With the cost of AC cable and wiring, you can install a fly line full light system, with out electricity bill. ► We can charge the battery with the help of solar cell. ► Its Initial cost is also very low. ► No further expense. ► Very low maintenance. ► Specially designed compact control system protect the whole unit.

You can generate and use then sell electricity to KSEB with solar power



Chathiyath - Vallarpadam Road

www.solarkerala.com

Help line: 9447366779, 8281848484, 9400464444

www.solarlighters.com



FLAT PLATE SOLAR WATER HEATER

First one Flat plate collector (FPC) – An insulated, weather-proofed box containing a dark absorber plate under one or more transparent or translucent covers. This is the most common type solar water heater. Murickens has tested and proved since 30 years that it is the most suitable type for Kerala's climatic conditions and get 80°C hot water with the help of only normal sunlight. We have Pressurized MG solar water heater and Non -pressure solar water heater in FPC model.

MG SOLAR WATER HEATER FEATURES:

► Maintenance free. ► Water heated up to 80°C. ► No electrical hazard. ► No expenses after installation. ► The best way of getting natural hot water for cooking and industrial purpose ► Copper capillaries. ► P U F system and glass wool to avoid conduction loss for storage tank. ► Light weight. ► T I G welded fins and tubes. ► Compact in size. ► Heat expulsion. ► Fully automatic. ► High quality tempered 4mm thick front glass. ► Sturdy and weather proof design. ► Different Capacity starting from 125 liters to 10000 liters. ► Custom built Solar Water Heater can also be provided. ► Two models FPC and ETC. ► In FPC special model we can connect pressure pump.

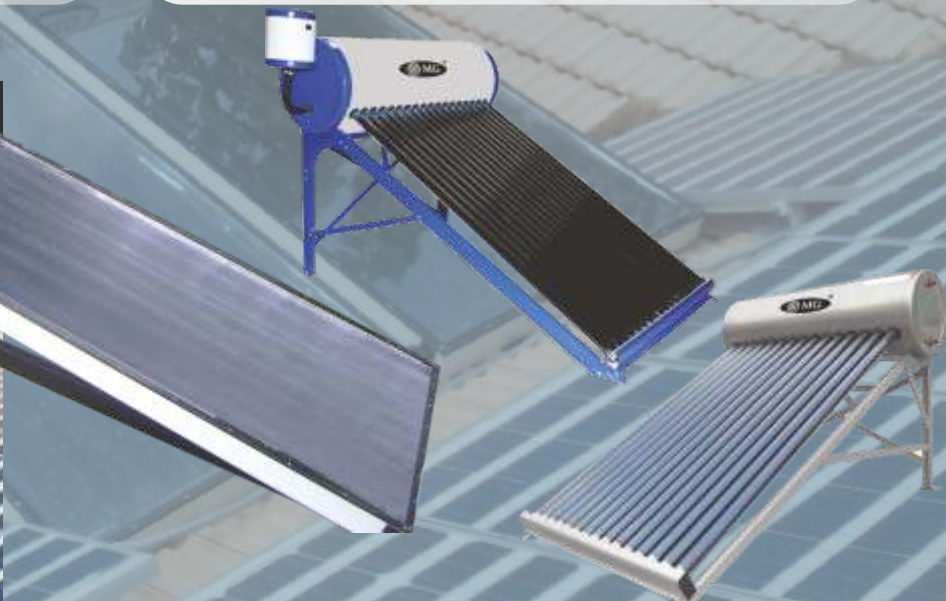


EVACUATED TUBE COLLECTOR WATER HEATER (ETC)

MG Evacuated Tube Collectors are the new version of solar water heater It is very cheap in price . In this system there no electronic or electric current conversion, only heat transmission. ETC collector is made up of rows of parallel, transparent glass tubes. Each tube consists of a glass outer tube and an inner tube called absorber which is covered with a selective coating. The demerits of ETC models are, we get only very low temperature, i.e. heat up $40 \pm 5^\circ\text{C}$. Water leakage through glass sealing, chance of brakeage of tubes when it is exposed to sunlight, chance to catch fungus inside the tube and consequently lower the heat of water. On rainy season, must have use electrical heater. We arrange MNRE subsidies for all our solar energy products

ETC MG SOLAR WATER HEATER FEATURES

► Easy to carry and install. ► Water heated up to 50°C. ► The best way of getting natural hot water for cooking and industrial purpose ► Evacuated glass tube collector ► PUF system and glass wool to avoid conduction loss for storage tank. ► Light weight. Compact in size. ► Heat expulsion. ? Fully automatic. ► Sturdy and weather proof design. ► Different Capacity starting from 100 liters to 250 liters. ► Custom built Solar Water Heater can also be provided.



www.solarwaterheaterkerala.com

Help line: 9447366779, 8281848484, 9400464444



SERVO AUTOMATIC STABILIZER

MG make high quality Stabilizers and Transformers with modern techniques which is suitable for all kinds of power related electronic equipments used for residential and Industrial purposes. There are a number of electronic devices like step up transformers and stabilizers which the people use to boost low voltage but it will not give a constant voltage output because they are relay based equipments. Servo voltage stabilizer is meant for solving all power related voltage fluctuations which cause complete damage to our costly electronic equipments, cut down its out put results in addition to wastage of man power, energy and money. It is a mechanism which is specially designed for the climatic conditions of Kerala and for the regular supply of constant out put voltage using Variac and copper wound transformers as in Kerala we cannot predict the KSEB out put voltage as it keeps on fluctuating

MG SERVO STABILIZER FEATURES:

► It act as a guard for every electronics equipments ► Quick, steady and accurate correction of voltage output 230V for Single phase and 400V for Three phase. ► ISO 9001- 2008 quality certifications ► Despite load current variations - Balanced output voltage. ► Irrespective of input imbalance. ► Fully automatic. ► Reduces heating and minimizes losses. ► Over Load Protection. ► Constant temperature maintained by oil or air cooling system. ► Boost-up transformer based model. ► Digital display for input and out put volt & irregularities. ► By using servo stabilizer we can improve over all production quantity and quality. ► In medical field, it is must for getting accurate lab test results ► Overall energy saving - above 98% efficiency Increased life of your equipment. ► Compact in size, etc. ► Custom made servo voltage stabilizers available as per customers requirement. ► Some of the extra adoptable features are Bypass Mechanism (change over switch) Inbuilt Isolation Transformer, Time Delay, Wheel mounting.

"It gives constant out put of current by reducing high volatge and increasing low voltage."

TECHNICAL SPECIFICATION OF SERVO STABILIZER:

Sl.No.	Parameter	Single Phase Unit	Three Phase Unit
1	Rating	1 KVA to 15 KVA	6 KVA to 500 KVA
2	Input Voltage Range	a) 160V -270V (Standard) b) 120V-270V(wide-range)	300-450V(Standard) 240V-450V(wide-range)
3	Nominal Output Voltage	230V	400V
4	Output Voltage Accuracy	± 1%	± 1%
5	Line Frequency Variation	47Hz-53Hz	47Hz-53Hz
6	Control	Digital/Analogue	Digital/Analogue
7	Response Time	10 ms.	10 ms.
8	Voltage Correction Rate		
	1. Air Cooled	35V/Sec.	35V/Sec.
	2. Oil Cooled	25V/ Sec	25V/ Sec
9	Efficiency	97%	97%
10	Protection	a) Automatic Switch-Off against - Under / Over-Voltage - Over-Load & Short - Circuit - Single Phasing	
11	Winding	Pure Copper Winded	Pure Copper Winded
12	Waveform	Pure Sine Wave	Pure Sine Wave
13	Power factor	Nil	Nil
14	Mounting	Free on wheel	Free on wheel

www.servostabilizerkerala.com

Help line: 9447366779, 8281848484, 9400464444



HEAT SEALED TUBULAR EL BATTERIES

Muricken's introduced Tubular batteries to the market through MG marketing system. High quality tubular batteries, for Industrial, Inverter, UPS and Solar use in different models like Tubular standard heat sealed battery, EL heat sealed type (INVA tubular). All the components are put to stringent quality tests and are checked every stages of its manufacturing process. This provides a high perfection for you. It is specially designed for Inverter UPS and Solar systems. "Now we have introduced a high technology battery called "INVA" tubular battery in C 10 series for solar power storage applications." These kind have 30% extra acid capacity in them and that acid act as a cooling agent which can also improve storage capacity. Our batteries have international quality with ISO standard certification.

FLYLINE TUBULAR BATTERY FEATURES:-

- Specially designed for solar applications. ► Suitable for frequent cycle duty. ► For solar applications C-10 model and C-20 for normal UPS and inverter. ► Efficiency 90%.
- Manufactured and assembled with top quality Rugged Hard Rubber Mono-Block Containers with handle for easy lifting. ► Tubular positive Grid cast with special alloy. ► Designed with extra electrolyte head for long frequency topping up. ► Micro porous PVC Aqua Trap Vent Plugs and Corrosion-Resistant Alloy prevents corrosion and acid fumes being emitted. ► Specially designed for smooth and trouble free long life. ► Three-year Warranty. ► Low maintenance. ► Heat sealed process help for trouble free working. ► Flyline lead acid batteries maintain the highest level ISO 9001-2008 certification



TECHNICAL SPECIFICATION

Murickens Group									
Capacity Power	Dimension (+/5 mm)			Weight (kg+/-5%)		Volume Electrolyte	Initial charge minimum AH input	Volts	Gravity
	Length	Width	Height	Dry	Filled				
120 AH	20"	8"	18.5"	28.3	64.3	24.6	450	12 V	(1.220 Sp. Gr)
150 AH	20"	8"	18.5"	33.5	60.01	23.6	540	12 V	(1.220 Sp. Gr)
200 AH	20"	8"	18.5"	45	72	21.4	720	12 V	(1.220 Sp. Gr)

www.solarinverterkerala.com

Help line: 9447366779, 8281848484, 9400464444



MOBILE MORTUARY

Murickens' Group "The first India based ISO certified mobile mortuary manufacturer." after several days of research developed a dead body freezer having all modern facilities and International technology to Preserve Bodies for number of days at home till the arrival of relatives and well-wishers. We have different models - standard model and extra large (EL). MG mobile mortuary has two type of top cover glass. First one is single sheet 10mm acrylic fiber glass model and second one is 6mm pure glass model. Acrylic fiber glass top is the most suitable model for mobile mortuary purpose because it is light weight, unbreakable and it possesses more cooling effect inside the mortuary. Due to the special design of MG Mortuary we can see the body very clearly from all of the angles. A light is fitted in the mortuary for easy visibility during night and in poor light during the day. This will automatically glow after sensing poor light. An external generator is provided due to which power failure is not a problem. Even after one week the body looks like as it is. Consumption of power is very low. MG Mobile Mortuary can be carried easily and adjust in a vehicle..

MG MORTUARY FEATURES

► US Technology with low maintenance. ► Dead body can be preserved for longer periods. ► Stainless Steel stretcher. ► Mortuary body made-up of full pure Stainless steel and copper which provide complaint free working and long life. ► View from all angles. ► Fully automatic ► Adjustable Digital display thermo meter. ► Input voltmeter. ► Separate on-off switch for voltmeter ,lights and compressor. ► Full PUF system (New technology). ► Inner side light. ► Top door opening with side view Acrylic/Glass (optional). ► Attractive top door handle 4 No. ► Light weight and compact size. ► Noiseless functioning. ► Wheel mounted (smooth and strong four wheels). ► Attractive look and long durability. ► Temperature from -2oC to -20oC. ► ISO: 9001 -2008 Certified product.



**"A unique product of MG by
US Technology aiming the
power saving with
maintenance free model"**

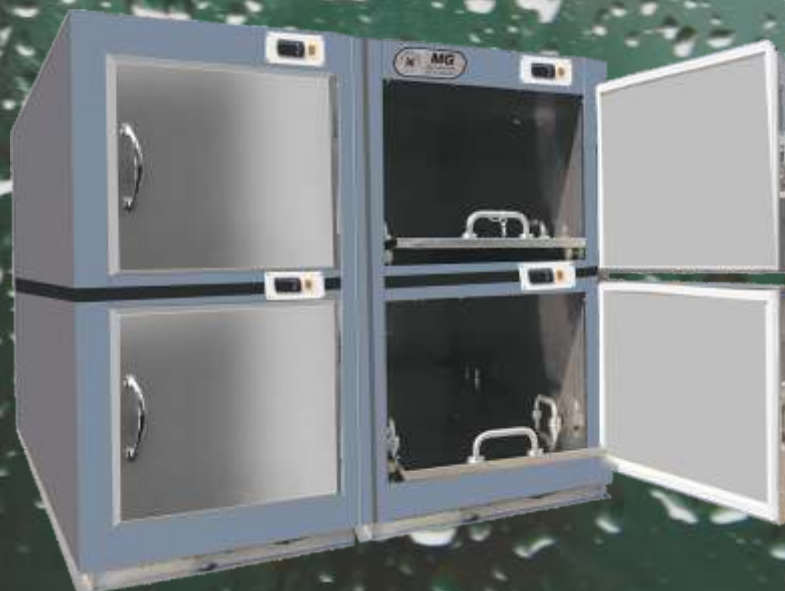


MORTUARY CHAMBER:

New revolutionary adventure for dead body preserving unit used for hospitals and nursing homes with low investment and power saving model. Normally all multi body mortuaries are all ways in on position even though it have single or two or there but by using this stem we can control and on-of the independent unit separately and save the electricity bill. Another issue is if the system face any complaint the entire unit is shutdown every one knows its headache. By using MG mortuary chambers we can forget this entire headache

MG CABINET MORTUARY FEATURES:-

► power saver model. ► Independent four body camper, ► On-off and control the unit separately. ► US Technology with low maintenance. ► Dead body can be preserved for longer periods. ► Stainless Steel stretcher. ► Mortuary body made-up of full pure Stainless steel and copper which provide complaint free working and long life. ► . Fully automatic ► Adjustable Digital display thermo meter. ► Full PUF system (New technology). ► Front door opening. ► Light weight and compact size. ► Noiseless functioning. ► Temperature from -2oC to -20oC



www.mobilemortuarykerala.com

Help line: 9447366779, 8281848484, 9400464444



A photovoltaic module or photovoltaic panel is a packaged interconnected assembly of photovoltaic cells, also known as solar cells. A single photovoltaic module can only produce a certain amount of wattage. Installations intended to produce larger electrical power capacity require an installation of several modules or panels and this is known as a photovoltaic array. Photoelectric cell uses the photovoltaic effect to generate electrical energy using the potential difference that arises between materials when the surface of the cell is exposed to electromagnetic radiation.

Murickens group - the whole sale and retail distributors - sells two kinds of ISO certified solar panels- Poly-crystalline and Mono-crystalline. Solar cells are the byproducts of silicon. Poly-crystalline is made up of billions of small silicon crystals, but Mono-crystalline material is made up of one large crystal of silicon. Mono-crystalline solar panel is more efficient in converting photons to electrons for electricity while the poly-silicon is less efficient because electrons are captured or generated less efficiently where the crystals of silicon touch. Poly-crystalline panels are commonly used because of competitive price. Mono crystalline solar panels have the ability to create current in cloudy conditions and even when it is raining. In the climatic conditions of kerala 1000 W Solar panels can create 4.5 Kwh to 5 Kwh electricity per day

FEATURES OF SOLAR CELLS

► High quality solar photovoltaic Silicon Mono / Multi crystalline panels or Cells. ► German cells assures the quality of product.► It is union of solar cells for desired capacity. ► Light weight and designed for getting maximum utilization. ► Resistant to abrasion, hail impact, rain, water and environmental factors. ► Anodized aluminum frame and pre-drilled mounting holes. ► Tempered glass for rugged protection. ► ISO 9001- 2008 certified. ► IEC 61215 certification by Euro Test and TUV. ► 5 years warranty. ► 35 years working life for flyline mono and Polly crystalline solar panes.► 1000 W Flyline solar panel has the capability to generate 4 to 5 units per day.► Each panel Test specification chart is on backside.

Different wattage panel is available like 3W (6 v), 10W, 20W, 35W, 50W, 100W, 125W in 12 volts and 250W in 24 volts



Existing Inverter and UPS convert to solar power

Avoid the excess use of energy when the battery is charging through KSEB."

We can convert any brand UPS or Inverter to solar power with the help of flyline solar panel and solar charge controller.

FLYLINE SOLAR CHARGING CONTROLLER

FLYLINE Pulse Width Modulation Solar Charging Controllers (PWM) Common Features

► The main advantage of Flyline Solar Charger is high efficient " Zero Drop" (we get 100 % efficiency)► Comparing to MPPT, there is no heat conversion efficiency lose in this special model. ► German Technology assures the quality of product. ► ISO 9001- 2008 certified Flyline Solar Charger. ► It is commonly used products. ► This charging controllers are used for smaller and medium power controlling units. ► The technical features are same with IGBT.► The control system controls the whole system taking care of battery over charging cut off, deep discharging cut off, protections in battery reverse, PV reverse, Overload and Short circuit. ► Our product connection diagram printed on it.► Micro controller based. ► LED, bar glass or LCD - display-battery voltage, load on/off, battery condition charging on/off 12/24 V ► Up to 80 amp auto detection for 12v/24v (automatic sensing).

Flyline IGBT Solar Charging Controllers common features

► It is used for high voltage regulations. ► German Technology assures the quality of Flyline Solar Charger.► ISO 9001- 2008 certified ► Zero Drop model (we get 100 % efficiency). ► It is commonly used products. ► IGBT charging controllers are used for medium and higher power controlling units. ► The technical features of MOSFET and IGBT are same. ► The control system controls the whole system taking care of battery over charging cut off, deep discharging cut off, protections in battery reverse, PV reverse, overload and short circuit. ► Micro controller base. ► LCD-panel-panel voltage, battery voltage, out current, solar in use, direct mains, saved unit,

MPPT (maximum power point Tracker) charging controller:-

► In the art of solar MPPT (Maximum Power Point Tracker) determines the ideal operating point via processor -controller algorithm. This significantly of incident light and temperature. ► The control system controls the whole system taking care of battery over charging cut off, deep discharging cut off, protections in battery reverse, PV reverse, overload and short circuit. ► MPPT Solar Charger have a power to increases the photovoltaic array power yield. ► It is most suitable for smaller power applications. If we use for higher application heat conversion lose is very high. ► Micro controller base. ► LCD display-panel voltage , battery voltage, out current, solar in use, direct mains, saved unit.



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