Regd. By Govt. Of India

10 YEARS EXPERIENCE

NSIC CERTIFIED CO.

KAYAM

KAYAM SOLAR CORPORATION Pvt. Ltd.



Kayam Care +91 9024 254 254

COMPANY INTRODUCTION

Kayam Solar is India's largest Solar Products Manufacturing company. It fulfills the needs of a large number of corporate and commercial customers and has also established leadership in the field. The Company ensures that the products have consistent quality and reliability.

Kayam Solar primarily focuses on the corporate and commercial markets. These include institutional, industrial and government organizations as well as commercial establishments such as showrooms, restaurants, banks, hospitals, theaters, shopping malls, boutiques and Etc.

We believe that technological innovation is the key to success in the market place. With our commitment to innovation and assertive global business policies our aim to become a leader eco-friendly products and making them reach your Doorsteps. PWD Approved Product And now presenting before you the world's best solar products.

We are proud to introduce before you the new hybrid solar products with the power of traditional products and high unimaginable capability to save power, save energy for the generations to come. We compete with the international standards and put towards you a challenging variety of product .

Our aim is to be an outstanding supplier of energy of energy savings, eco-friendly and healthy products and by following our best quality service.







KAYAM Solar Products



Solar Panels



Solar Batteries



Solar Inverter's



Solar Fan's



Solar Air Coolers



Solar LED Lights



Solar Lanterns



Solar Torchs



Solar C.C.



Solar Madhani



Solar Water Heater



Solar Water Pump



Solar Power Plant



Solar Street Light



Solar Air Conditioner



L.E.D.

Smart Cooling !
Smart Savings !!







Kayam Solar Vision

- Delivering 'BEST IN CLASS' Quality In The Product After Sales And Service.
- Being 'ENVIRONMENTALLY CONSCIOUS' In Areas Of Energy Efficiency And Pollution.
- Remaining Embedded In Our Core Values Of Environmental Helth & Safety And Ethics.
- To Reduce The Consumption Of Electricity

Performance and Characteristics

- High efficiently, Energy-Saving, Comfortable And Money Saving, Exceeding National First Grade Energy Standard.
- Durable and Long-lived, Smooth Running.
- Low-loaded Operation of the Compressor to Extend Its Duration.
- Healthy And Comfortable Constant Temperature And Keeping Away The Normal Health Problems That Arises. It Is Not Frequent Conversion Air Conditioner But Superior to it Because Conventional Type Begins To Save Energy When The Indoor Temperature Reaches The Set Value, While The Hybrid Solar Air Conditioner Runs In The Optimal State Immediately After Starting And it Achieves The Same Effects Of Traditional Air Conditioner With Less Power Consumption.
- Easy Installation, Same As The Traditional Air Conditioner With Strong Adaptability, Kayam Solar Hybrid Air Conditioner Can Run At Super Low And High Temperature -70˚C to 53˚ C. Eco Friendly To All Kids Of Environment.
- Indoor Panel Adopts Aluminum Alloy And Write During Metal Colour Brand To Make Your House More Sparking. Automatic Open And Close Dustproof Air Outlet.
- Super Luxurious Appearance Decorates Your Home.

Why Hybrid Solar air conditioner can SAVE electricity?

Here are the reasons.....

Firstly, it absorbs solar energy to heat the inside medium by using a vacuum solar collector. The refrigerant from the compressor goes through the copper coil inside the collector and undertakes a heat exchange. The refrigerant exchanges heat with the medium inside. The solar collector will go through a cycle inside the system for cooling and heating.

Secondly, it adapts a highly efficient heat-exchange system. The use of the internal thread pipe, hydrophilic aluminum fin and the optimal heat exchange system reduce energy loss, improve the overall efficiency and effectively ensure the performance. There, hybrid solar air conditioner is more convenient and energy saving than regular air conditioner.

High Efficiency Rotary Compressor

Every Kayam Solar Hybrid Air Conditioner Uses Highly Energy Efficient Rotary Compressor With A Bult In Accumulator. This Compressor is Specially Designed To Deliver Maximum Cooling While Using Low Power And Helps You Save Your Power Bills.

Powder-Coated Outer Body

Every Kayam Solar Hybrid Air Conditioner Outdoor Units Have Been Built Keeping In Mind The Harsh Indian Climatic Conditions. The Metal Bodies Of The Units Use Galvanized Steel And Are Coated Whit Polyester Power Paint. The Projects Them From Rusting And Increases Their Life Significantly.

Anti-Corrosive Blue Fin Copper Condenser

Special AntiCorrosive Blue Fins Are Used In Copper Condenser To Resist The Corrosion Of Condenser Thus Increasing The Ac's Life.

Smart Cooling Smart Saving

Kayam Solar Hybrid Hi-Wall Split Air Conditioners Offers You The Dual Advantage Of High Performance Cooling And Low Electricity Bills.

Compare to current Products.....

- Conventional air conditioner consumes too much, users have to pay a heavy electricity bill.
- Photovoltaic (PV) system costs a large amount of money to build up.
- Thermally driven absorption cooling is also very costly and its cooling capacity is not enough.

The differences between our solar air conditioner and conventional Air Conditioner as follow.....

- We use two groups of condensers, other conventional air conditioner use only one condenser
- We use 100% copper pipe, some conventional air conditioner use aluminum pipe.
- We use 4 fold evaporator conventional air conditioner use 1 or 2 fold evaporator
- We use branded compressor, some conventional air conditioner don't use brand name Compressor

It can stand heat into 53ºC outdoor temperature; some conventional air conditioner will shut down at this temperature.



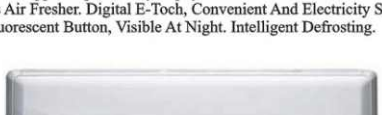
Wide Airflow & Great Cycle Air

Brush away the clouds and you will see the marvelous spacious sky sitting on the clouds and the free space amuses you. with wild air flow and great cycle air Kayam Solar hybrid solar air conditioner transmits the fresh air evenly to each corner in the room slows down your rapid footsteps, realizes your pressure, claims down so that you can return to the initial freedom physically and mentally after a busy day.



I am the King of My Sky!

World famous brand compressors, high reliability and long-lived Digital LED display. Multi-fold heat Exchanger, High Quality Internal Thread Copper Pope And Hydrophytic Aluminum Foil Make The Cooling Capacity Stronger. Anti Dust Air Filter Makes Air Fresher. Digital E-Toch, Convenient And Electricity Saving, Easily Accessible By Elder People And Kids. Fluorescent Button, Visible At Night. Intelligent Defrosting.



Working principle:

In solar air conditioner, solar collector collects heat from the sun and heat the water inside the tank. High temperature high pressure steam (Freon) com e from the compressor the high temperature high pressure steam (Freon) will go to the copper coil of the solar collector for heat exchange.The solar collector makes the high temperature high pressure steam (Freon) into the higher temperature and higher pressure. in short, the solar collector helps the compressor to make the temperature and pressure higher. That is why the solar air conditioner can save electricity and increase the energy efficiency when cooling



Specification Sheet Solar Hybrid Air Conditioner

Model			KSC-26GW	KSC-35GW	KSC50GW	KSC-70GW
Cooling Capacity	BTU		9,000	12,000	18,000	24,000
	Horse Power		1.0	1.5	2.0	3.0
	Ton		0.75	1	1.5	2
Power Supply			220V/50Hz/1Ph			
Performance						
Capacity	Cooling	Btu/h	9000	12000	18000	24000
		W	2600	3200	5200	7200
	Heating	Btu/h	10000	13500	19000	26000
		W	2900	3500	5700	7900
Noise	Indoor	db(A)	<40	<40	< 48	< 50
	Outdoor	db(A)	<50	<50	< 56	< 58
Air Circulation		m^3/h	510	520	?1000	1100
Suitable Area		m^2	12~16	15-30	25~35	30-50
EER		w/w	3.77	3.79	3.82	3.89
COP		w/w	4.08	4.43	4.19	4.27
Power						
Input power	Cooling	W	690	780	1360	1850
	Heating	W	710	790	1360	1850
Rated Current	Cooling	A	3.14	3.55	6.18	8.41
	Heating	A	3.23	3.59	6.18	8.41
Dimensions						
Indoor Unit	Net	mm	845*325*228	845*325*228	1015*335*200	1090*325*245
	Package	mm	905*370*283	905*370*283	1065*375*255	1145*375*305
Outdoor Unit	Net	mm	820*320*540	820*320*540	920**355*600	920*375*730
	Package	mm	885*360*600	885*360*600	995*390*650	1025*395*750
Weight						
Indoor unit	Net/Gross	kg	10.5/13	10.5/13	14.5/18.5	18.5/19
Outdoor unit	Net/Gross	kg	33/36	35/38	51/56	61/66
Flat Panel						
Dimensions	Net/Gross	mm	1000*550*87	1000*550*87	1000*550*87	1000*550*87
Weight	Net/Gross	kg	14/16	14/16	14/16	14/16
Container loading quantity	1x20' GP	sets	108	75	62	51
	1x40' GP	sets	243	167	139	116
	1X40"HQ	sets	295	203	169	141

How to save energy at night:
The tank is well insulated so it can keep the gas warm without sunshine for more than70 hours.

Warranty:
We will offer 5 years guarantee for compressor and one year warranty for Indoor units and assure 100% support for the after sale service. Your feedback will be much appreciated

Kayam Solar Ac Compared To Other Five Star Ac

Capacity	Product	BTU	Cooling (Watt)	Power (Watt)	EER	12 Hrs Per day Unit	24 hours Per day Unit	12Hrs Saving unit	24 Hrs saving unit	Total Savings Rate %
.75 Ton	5 star Non solar A/C	9000	2600	810	3.26	6.90	13.80			
	Kayam Solar Hybrid A/C	9000	2600	700	3.77	2.84	5.25	4.06	8.55	60%
1 Ton	5 star Non solar A/C	12000	3500	1120	3.14	8.90	19.04			
	Kayam Solar Hybrid A/C	12000	3500	890	3.79	3.60	6.75	5.30	12.30	60%
1.5 Ton	5 star Non solar A/C	18000	5200	1570	3.36	13.35	26.70			
	Kayam Solar Hybrid A/C	18000	5200	1150	3.82	5.64	10.58	7.71	16.12	60%
2 Ton	5 star Non solar A/C	24000	7200	2108	3.40	17.90	35.84			
	Kayam Solar Hybrid A/C	24000	7200	1750	3.89	7.40	13.89	10.50	21.95	60%

Note :- Parameters in the table are measured under standard conditions. Changes many appear according to real working state.

सौर ऊर्जा से पानी गरम करें
बिजली क्यों खर्चते हैं



Solar
Water Heater
100L, 200L, 300L, 500L,

Affordable Solar Power

Kayam Innovations, is a technology firm with core focus on offering affordable Solar power. We install, maintain and service Solar energy solutions in West UP region and distribute these products across North India.

Solar water heaters use Sun's energy to heat water during the day. This water is stored inside an insulated tank for use whenever required. Even during winter season, the Sun rays have enough energy to heat water up to 60°C to 70°C, which is more than sufficient for bathing, washing clothes, use in kitchen, etc.

Product Features:

- **Govt. (MNRE) Subsidy benefit available**
- **Suitable for use in areas with Hard water**
- **Toughened glass tubes for extra protection**
- **Stores hot water for more than 48 hours**
- **Industry leading guarantee 5 years***
- **Completely Safe & Pollution free**
- **Local service support available**



Technical Specifications:

Type of collector	:	Evacuated Glass Tube (ETC)
Glass Tube size	:	47mm dia. x 1800mm length
Inner tank material	:	Stainless Steel 316L grade
Insulation	:	High quality PUF material
Outer tank	:	Power coated / Stainless Steel
Guarantee	:	5 years*

Tank capacity	Tank width
100 L	3.5 feet
200 L	6 feet
300 L	8.5 feet
500 L	14 feet

Our other products:

☼ Solar Inverter battery charging solution ☼ Solar Street lights ☼ Solar charge controller
☼ Solar power plant (1 kW - 100 kW) ☼ Solar hoarding light

Product details might change

* Conditions apply

KAYAM SOLAR WATER PUMPING SYSTEM

Solar-powered pump

A solar-powered pump is a pump running on electricity generated by photovoltaic panels or the thermal energy available from collected sunlight as opposed to grid electricity or diesel run water pumps. The operation of solar powered pumps is more economical mainly due to the almost zero operation and maintenance costs and has less environmental impact than pumps powered by an diesel engine. Solar pumps are useful where grid electricity is unavailable.

Components

A photovoltaic solar powered pump system has three parts:

► Pump ► Controller ► Solar Panels

The size of the PV-system is directly dependent on the size of the pump, the amount of water that is required (m^3/d) and the solar irradiance available.

The purpose of the controller is twofold. Firstly, it matches the output power that the pump receives with the input power available from the solar panels. Secondly, a controller usually provides a low voltage protection, whereby the system is switched off, if the voltage is too low or too high for the operating voltage range of the pump. This increases the lifetime of the pump thus reducing the need for maintenance.

Traditional DC motors not being suitable for submissable pumps because of maintenance implications. Hence a converter which converts DC generated by PV cells into variable frequency AC is more suitable for AC motors, which are more reliable.

Applications

Solar powered water pumps

Can deliver drinking water as well as water for livestock or irrigation purposes. Solar water pumps may be especially useful in small scale or community based irrigation, as large scale irrigation requires large volumes of water that in turn require a large solar PV array. As the water may only be required during some parts of the year, a large PV array would provide excess energy that is not necessarily required, thus making the system inefficient.

Solar PV water pumping systems are used for irrigation and drinking water in India. The majority of the pumps are fitted with a 1hp to 10hp motor that receives energy from a suitable PV array. The larger systems can go upto 30hp or so.

Solar powered irrigation pumps

Make agriculture possible in areas that previously could not be farmed. Innovations in solar pump design now make all kinds of irrigation possible. Drip irrigation, sprinklers, micro-emitters, flood irrigation, even center-pivot irrigation systems can be powered without fuel, and without a connection to an electrical grid. Solar irrigation pumps can help increase crop yield.



Available : 1hp, 2hp, 3hp, 5hp, 7.5hp, 10hp, 15hp, 20hp to 100hp

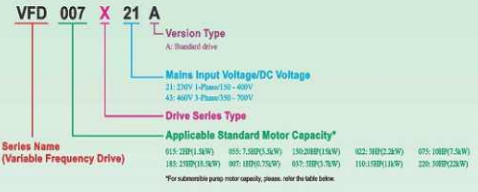
PUMP CONTOLLAR

In-built MPPT

Features



Model Explanation



Ordering Information

Part No.	Input DC Voltage Range	Output 3 Phase Voltage (Max)	Output 3 Phase Current (Max)	Suitable for Submersible Pump motor rating (HP)
VFD007X21A*	150 - 400V	230	4.2	1
VFD015X21A*	150 - 400V	230	7.5	2
VFD022X21A*	150 - 400V	230	11	3
VFD022X43A*	350 - 700V	415	5.5	2
VFD037X43A*	350 - 700V	415	8.5	3
VFD 040 CB43A	350 - 700V	415	10.5	4
VFD055X43A*	350 - 700V	415	13	5
VFD075X43A*	350 - 700V	415	18	7.5
VFD110E43A	350 - 700V	415	24	10
VFD150E43A	350 - 700V	415	32	15
VFD185E43A	350 - 700V	415	38	20
VFD220E43A	350 - 700V	415	45	25

*X is the name of the series (could be E or CB)



FROM THE LEADERS OF
HI POWER UPS

UNLIMITED POWER UNLIMITED COMFORT



Large Offices, Farm Houses & Kothies run

1 to 20 AC's

on our Hi Power Inverter











1 KVA to 100 KVA

SAILENT FEATURES

- State of art MOSFEET/IGBT based PWM technology increase crest factor tolerance & dynamic stability.
- Auto sense intelligent control smart charger.
- Static electronic change-over so more reliable.
- Quite operation of AC motors as well as the other inductive load unlike modified Sine Wave
- Very low third harmonic distoration.
- Wide input range.
- Fast changeover which makes it compatible to computer.
- TDR time delay relay for compressor based applications.
- Mains mode short circuit protection.
- Surge load capacity up to 300%
- Less operating cost as compare to online UPS as well as DG sets.
- By pass switch incase of systems failure.
- Automatic boost & trickle charging.
- Optional PWM/MPTT solar charger.
- Overload / Short circuit & battery deep discharge protection.
- User providing LCD display.

APPLICATIONS

Major Power Back Up Sources in Corporate, Computer Peripherals, Servers, Medium Hub, Scanners, Printers, School, Colleges, Institutes Broadcasting, Satellite Receiver, Aviation, Telecom Towers Emergency Power Systems, A.C. & All Compressor Based Applications Petrol Filling Machines, Agriculture Pumps, Life Saving Medical Equipments, Dentist, Hospital, Nursing Homes Water Pumps & All Motor Based Applications Govt. Establishments, Factories, Industry, Trade Mills, Shopping Malls, Complexes, Shops, Offices, Photocopy Machines, Hotels, Guest House, Restaurants, Community Center, Group Housing Society, Automatic Lift Backup System & Escalators All Solar Applications

KAYAM SOLAR BATTERIES



7.5 AH



20 AH



20 AH



40 AH



40 AH



150 AHFP



150 AHFP





150 AHTT
200 AHTT

KAYAM

SOLAR PANELS

Panels Available

- 3 W
- 5 W
- 10 W
- 20 W
- 40 W
- 75 W
- 100 W
- 150 W
- 200 W
- 250 W
- 300 W
- 315 W









KAYAM SMART STOVE

Kayam Smart Stove is a single-burner, high efficiency cook stove that works on all solid biomass fuels such as wood, dry dung, crop waste, coconut waste, bamboo etc. The stove does not require any fuel processing/cutting.

Features

- Size: 9.8" x 7.6" x 11.6"
- Materials: Steel and Aluminium with Bakelite Handles
- Loading Capacity: 25 kg
- Secondary Air Induction Mechanism: Yes
- Warranty: 1 year
- Fuel Savings: 65%
- Smoke Reduction: 70%
- Ergonomic front loading design

Features

- Size: 12.4" x 10.6" x 11.6"
- Materials: Steel and Aluminium with Bakelite Handles
- Loading Capacity: 40 kg
- Secondary Air Induction Mechanism: Yes
- Warranty: 2 years
- Fuel Savings: 65%
- Smoke Reduction: 70%
- Ergonomic front loading design

Frequently Asked Questions

What makes the Kayam Smart Stove/Jumbo better than a traditional stove?
Kayam Smart Stove comes with a patented air regulation technology that leads to bettercombustion i.e. increased efficiency (less fuel) and reduced smoke. This mechanism is highly durable and does not have any moving parts.

Is the stove portable?
Yes, the stove is portable and can be easily carried from one place of use to another.

Does the ash fall on the floor?
No, the ash stays inside the stove and can be removed by tilting the stove once cooking is finished.

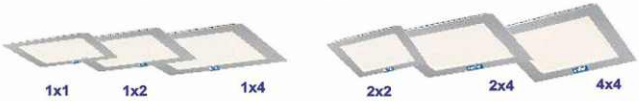
Can the flame come out from the front?
The Kayam Smart Stove has a shroud protruding in the front to limit instances of fire coming out of the front feeding area.

What if I spill food or water on the stove?
Worry not. Kayam Smart Stove has an aluminium body which you can wipe clean easily. Your stove will keep looking new.

Will the food taste different?
No. The food will taste as delicious as before.

How is it different from the Kayam Jumbo Stove?
The Smart Stove is ideal for smaller families i.e. 4 to 6 persons while the Jumbo may be used for larger households or bulk cooking.

KAYAM DOWN LIGTERS



KAYAM STREET LIGHT



9w 12w 18w 24w 30w

KAYAM SOLAR STREET LIGHT DUSK TO DOWN



Available in
9w
12w
18w
24w
30w

KAYAM LED TUBE LIGHTS

T5 LED



T8 LED

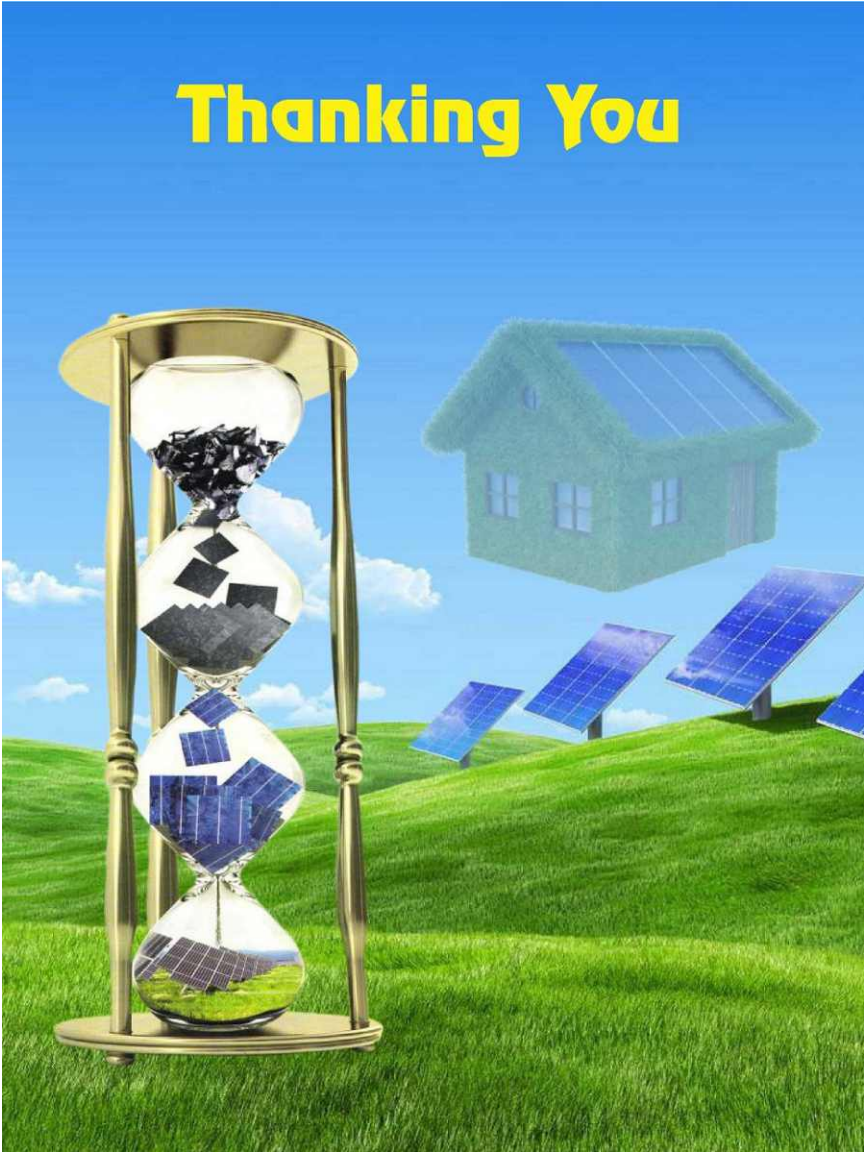


KAYAM LED BULBS




KAYAM
TIME TO GO
SOLAR
+91 9024 254 254
www.kayamsolar.com

Thanking You







Kayam Solar Corporation Pvt Ltd.,

Regd. Office :
Near Masjid Kayamsafa,Ward No 31
Churu 331001(Rajasthan) INDIA
Kayam Care : +91 9024 254 254
Help Line : +91 982 93 22208

Corporate Office : Rajasthan
Near Pankha Circle, Market Road,
Churu 331001(Rajasthan) INDIA
Tel. & Fax +91 1552 254 254
Kayam Care : +91 9024 254 254
Help Line : +91 982 93 22208

www.kayamsolar.com E Mail: info@kayamsolar.com