

# moseta®

## RENEWABLE LUXURY



SOLAR AIR CONDITIONER | BLDC FAN | SOLAR LITHIUM HYBRID INVERTER

*Let clean energy do the work for you*



*Harness  
the Sun's Power,  
Convert with  
**PRECISION***

## PREFACE

- As we move towards a future that is defined by constant innovation and a greater need for sustainability, we are proud to present our latest product - The Lithium Inverter. This innovative product is designed to address one of the most critical needs of our time - clean energy, and has the potential to revolutionize the way we consume and use electricity.
- At its core, the Lithium Inverter is all about energy efficiency and sustainability. Our product combines intelligent design with cutting-edge technology to provide a comprehensive solution to all your energy needs. With an emphasis on eco-friendliness, the Lithium Inverter is the perfect solution for those who are looking to reduce their carbon footprint and contribute to a better world.
- Our team of experts has gone to great lengths to ensure that this product is not only state-of-the-art but also reliable and easy to use. The innovation behind this product lies in its unparalleled efficiency, which enables it to generate a significant amount of energy from renewable sources. This is the power of the future - efficient, sustainable, and eco-friendly.
- We are excited to introduce our Lithium Inverter, a product that has the potential to redefine the way we use electricity and contribute to a cleaner and more sustainable future. Join us in creating a better world, one step at a time.

## WHO WE ARE

- At Oxyneuron India Pvt Ltd, we are a team of passionate and dedicated hard-core technical professionals. We believe in challenging the status quo, pushing boundaries, and driving innovation in the field of renewable technology.
- Our management team consists of experienced individuals from the esteemed R&D teams of well-known companies such as Luminous, Sukam, and Kodak. Additionally, we have talented members who are alumni of renowned institutions like the Indian Institute of Management (IIM). Their extensive industry knowledge and expertise form the backbone of our operations, ensuring the highest standards of quality and excellence.
- What sets us apart is our unwavering commitment to innovation and sustainability. We strive to create products and solutions that not only meet market demands but also have a positive impact on the environment. By harnessing the power of solar energy, we aim to contribute to a greener and more sustainable future.
- As a self-capital-based business, we have full control over our operations and decision-making process. This allows us to pursue our long-term vision without compromising on our core values. We prioritize initiatives that promote environmental consciousness, carbon rating, and the adoption of solar energy in various consumer electronics and refrigeration systems.
- Furthermore, we are engaged in continuous research and development in the field of health equipment, aiming to improve healthcare facilities using renewable energy sources.
- Our vision extends beyond simple profit-making; we are driven by a genuine desire to make a positive impact on society and the environment. We firmly believe that through our innovative and sustainable solutions, we can contribute to a healthier planet and a brighter future for generations to come.

- Join us in our mission to revolutionize the renewable technology industry and create a world powered by clean, efficient, and sustainable energy.
- Moseta(Oxyneuron India Pvt Ltd )Shaping the future through innovation and renewable technology.

## € USP (Unique Selling propositions)

- Made-in-India Products: Our company focuses on developing completely made-in-India inverters and batteries that are of the highest quality, ensuring that customers have access to reliable and locally-made products.
- Blister Copper Transformers: Unlike the market, we specialize in developing inverters using blister copper transformers, which offer superior performance, efficiency, and durability compared to traditional aluminum transformers.
- Extended Warranty: Our off-grid inverters come with an extended warranty period of 5 years, providing customers with peace of mind and ensuring the long-term reliability of the product.
- Lithium Ferophosphate Batteries: In contrast to the market's cheap and low-quality lead-acid batteries, our company offers high-quality lithium ferophosphate batteries that have a lifespan of 15 years. These batteries provide excellent performance, longer cycle life, faster charging, and increased energy efficiency compared to traditional lead-acid batteries. With our lithium battery solutions, customers can enjoy reliable and long-lasting power storage for their inverters.
- Portable Wall-mount Inverters: We offer high-capacity portable inverters, designed to provide uninterrupted power supply during power outages. Our wall-mount inverters are compact, efficient, and offer a quick solution to power needs.
- Direct Solar Running Products: We provide direct solar running products that are designed to maximize energy output and efficiency. Our products are highly reliable, durable, and a great way to make the best use of solar power.
- Quality Assurance: Our products are developed under strict quality controls to ensure that they exceed customer expectations. We pride ourselves on providing our customers with unmatched quality products and services.
- By focusing on these Market gaps, our company is committed to providing our customers with high-quality, reliable, and durable products. We are dedicated to innovation and exceeding customer expectations by continuously improving our products and services. Our expert technical support and after-sales service ensure that our customers receive prompt assistance and guidance, making us the preferred choice for inverter and battery needs.



400+

PRODUCT



20,000+

CUSTOMERS



PATENT

Patented Products In house  
R&D Out of the Box Ideas & Innovations



100%

MADE IN INDIA



Benefits of

## Solar Air Conditioner:

Solar air conditioners offer a promising alternative to traditional AC units by utilizing clean and renewable solar energy. They not only provide comfort but also contribute to energy efficiency, cost savings, and a greener future.

1

### ENERGY EFFICIENCY

Solar air conditioners utilize the power of the sun to generate electricity, reducing reliance on conventional electrical supply and leading to significant energy savings.

2

### LOWER ELECTRICITY BILLS

By harnessing solar energy, these air conditioners can reduce electricity consumption, resulting in lower monthly utility bills and long-term cost savings.

3

### ENVIRONMENTALLY FRIENDLY

3. Solar air conditioners produce clean energy, reducing carbon emissions and contributing to a greener and more sustainable environment.

4

### RELIANCE ON RENEWABLE ENERGY

Using solar power for air conditioning reduces dependence on fossil fuels, which are finite resources. Solar energy is renewable, abundant, and freely available.

5

### OFF-GRID CAPABILITY

In areas with limited or unreliable electricity supply, solar air conditioners can operate independently, making them a practical solution for both residential and commercial spaces.

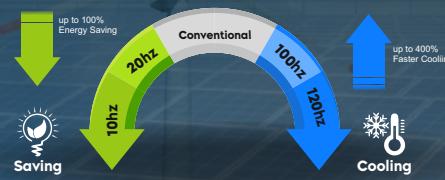
AIR CONDITIONER

## SOLAR AIR CONDITIONER

Power Saver On Electric



AC Remote



ANTI DUST & BACTERIAL FILTER



R32 REFRIGERANT GAS



VOLTAGE FLUCTUATION PROTECTION



SMART FILTER



TURBO COOLING MODE



EASY TO INSTALL

# SOLAR AIR CONDITIONER

Power Saver On Electric

## SPECIFICATION

	SOLAR AIR CONDITIONER 1XES150	SOLAR AIR CONDITIONER 2XES200
<b>Ton Equivalency</b>	1.5T	2T
<b>BTU</b>	18000	26000
<b>Starting current ampere</b>	0.25	0.25
<b>Running Current ampere*</b>	4.5A-1A	7A-1A
<b>Air Flow</b>	754	754
<b>Refrigerant</b>	R32	R32
<b>Unit Consumption</b>	12hr/6unite	12hr/8unite
<b>Compressor</b>	BLDC/Mitsubishi	BLDC/Mitsubishi
<b>Air Filter</b>	Yes	Yes
<b>Power Input Volt</b>	AC Volt	AC Volt
<b>Indoor Unit Dimensions</b>	900x300x295	1000X300X295
<b>Net weight (Indoor)</b>	10kg	20kg
<b>Outdoor Unit Dimensions</b>	381 x 610 x 914	381 x 610 x 914
<b>Net Weight (Outdoor)</b>	30Kg	35Kg
<b>Grid Connection</b>	Direct	Direct
<b>Indoor Fan Motor</b>	BLDC	BLDC
<b>Grid Connection</b>	220V	220V
<b>Outdoor Fan Motor</b>	BLDC	BLDC

# SOLAR AIR CONDITIONER

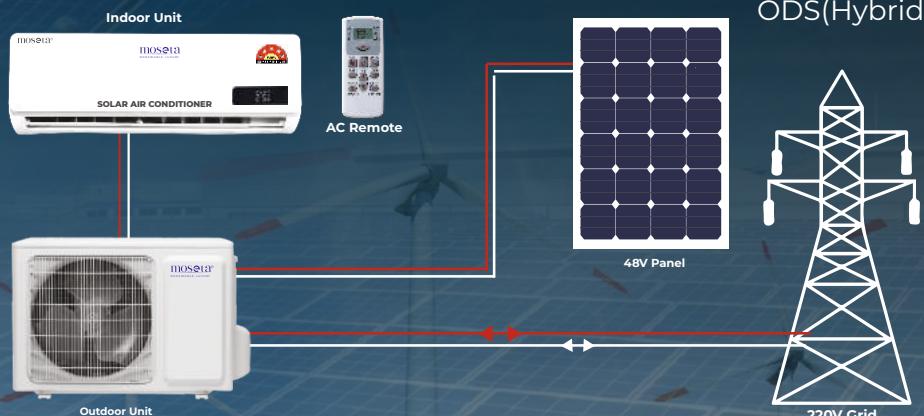
moseta®  
RENEWABLE LUXURY

## SOLAR HYBRID AIR CONDITIONER

ONGRID/DIRECT



### OPERATION ODS(Hybrid)



BI-DIRECTIONAL  
ELECTRICITY ONGRID



12 MONTHS  
HYBRID USAGE



NO ELECTRICITY  
WASTAGE



90% ELECTRICITY  
SAVING



0% CARBON  
FOOTPRINT



EASY TO  
INSTALL

# SOLAR HYBRID AIR CONDITIONER

ONGRID/DIRECT

## SPECIFICATION

	SOLAR HYBRID AIR CONDITIONER 1XODS150	SOLAR HYBRID AIR CONDITIONER 1XODS200
<b>Ton Equivalency</b>	1.5T	2T
<b>BTU</b>	18000	24000
<b>Starting current ampere</b>	0.25	0.25
<b>Running Current ampere*</b>	4.252A-4.5A	4.252A-6.5A
<b>Air Flow</b>	754	754
<b>Refrigerant</b>	R32	R32
<b>Unit Consumption*</b>	2.5Units/12 Hour	4Units/12 Hour
<b>Compressor</b>	BLDC/Mitsubishi	BLDC/Mitsubishi
<b>Air Filter</b>	Yes	Yes
<b>Efficiency</b>	94%	95%
<b>Power Input Volt</b>	DC + AC Volt	DC + AC Volt
<b>Indoor Unit Dimensions</b>	900x300x295	1000X300X295
<b>Net weight (Indoor)</b>	10kg	20kg
<b>Outdoor Unit Dimensions</b>	381 x 610 x 914	381 x 610 x 914
<b>Net Weight (Outdoor)</b>	30Kg	35Kg
<b>Solar Panel + Grid</b>	Direct	Direct
<b>Indoor Fan Motor</b>	BLDC	BLDC
<b>Grid Connection</b>	220V	220V
<b>Outdoor Fan Motor</b>	BLDC	BLDC

# SOLAR AIR CONDITIONER

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## BATTERY DIRECT SOLAR AIR CONDITIONER

BDS



## OPERATION BDS

- Maintenance Free
- 90% Electricity Saving
- 0% Carbon Footprint
- Advantage of Power Plant
- 6 Hours Backup
- Easy to Install

# SOLAR HYBRID AIR CONDITIONER

ONGRID/DIRECT

## SPECIFICATION

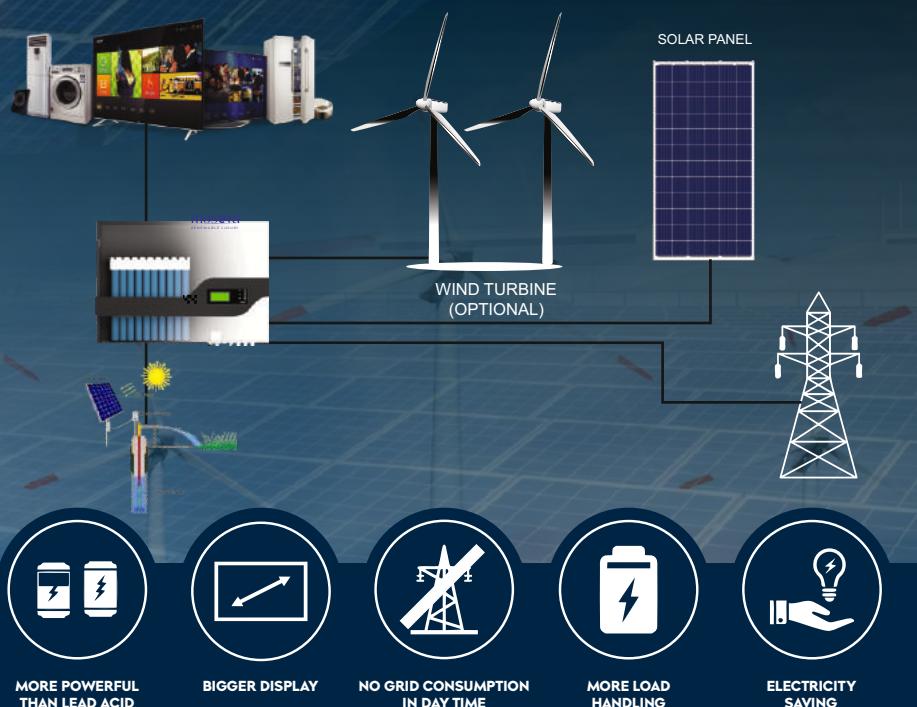
	BATTERY DIRECT SOLAR AIR CONDITIONER 1XBDS150	BATTERY DIRECT SOLAR AIR CONDITIONER 2XBDS200
<b>Ton Equivalency</b>	1.5T	2T
<b>BTU</b>	18000	26000
<b>Starting current ampere</b>	0.25	0.25
<b>Running Current ampere*</b>	4.5A-1A	7A-1A
<b>Air Flow</b>	754	754
<b>Refrigerant</b>	R32	R32
<b>Unit Consumption</b>	As Per Usage	As Per Usage
<b>Compressor</b>	BLDC/Mitsubishi	BLDC/Mitsubishi
<b>Air Filter</b>	Yes	Yes
<b>Efficiency</b>	94%	95%
<b>Power Input Volt</b>	DC 200V-400V	DC 200V-400V
<b>Indoor Unit Dimensions</b>	900x300x295	1000X300X295
<b>Net weight (Indoor)</b>	10kg	20kg
<b>Outdoor Unit Dimensions</b>	381 x 610 x 914	381 x 610 x 914
<b>Net Weight (Outdoor)</b>	30Kg	35Kg
<b>Solar Panel + Lithium Inverter</b>	Lithium Battery Connection	Lithium Battery Connection
<b>Indoor Fan Motor</b>	BLDC	BLDC
<b>Grid Connection</b>	220V	220V
<b>Outdoor Fan Motor</b>	BLDC	BLDC

**moseta®**

RENEWABLE LUXURY

# IRONMAN 15

Model: 1700/3400 WATT



# IRONMAN 15

**Model:** 1700/3400 WATT

## TECHNICAL SHEET

MODELS	48V/1700W	48V/1700W	48V/1700W	48V/3400W	48V/3400W	48V/3400W
<b>General DATA</b>						
Inverter/Battery Details	1700	1700	1700	3400	3400	3400
Inverter Voltage	48V	48V	48V	48V	48V	48V
Battery Voltage	48V	48V	48V	48V	48V	48V
Watt Hour	150AH/1700W	300AH/3400W	450AH/5000W	150AH/1700W	300AH/3400W	450AH/5000W
Battery	Lipo4GR	Lipo4GR	Lipo4GR	Lipo4GR	Lipo4GR	Lipo4GR
Body Type	Wall Mount	Wall Mount	Wall Mount	Wall Mount	Wall Mount	Wall Mount
Solar	Yes	Yes	Yes	Yes	Yes	Yes
Efficiency	94%	94%	94%	94%	94%	94%
Transformer Type	Blister Copper	Blister Copper	Blister Copper	Blister Copper	Blister Copper	Blister copper
<b>Input DATA (DC)</b>						
Maximum PV Power	2500	2500	2500	5000	5000	5000
Hybrid MPP Voltage Range	48-110	48-110	48-110	48-110	48-110	48-110
Solar VOC	110	110	110	110	110	110
Solar ISC Max	30	30	30	30	30	30
<b>Output DATA (AC)</b>						
AC Nominal Power	1700VA	1700VA	1700VA	3400VA	3400VA	3400VA
AC Voltage Nominal	220-240	220-240	220-240	220-240	220-240	220-240
Maximum AC Apparent/Continous Power*	1200	1200	1200	2400	2400	2400
Maximum Output Current	4.5	4.5	4.5	9	9	9
Adjustable Power Factor	0 Bleeding 0 Blogging					
THDI	<3%					
AC Grid Connection Type	Single					
<b>Protection Device</b>						
DC Reverse Polarity Protection	Yes					
DC Switch	Yes					
AC/DC Surge Protection	Type II/Type II					
AC Short Circuit Protection	Yes					
Ground Faulting Monitoring	Yes					
Anti Islanding Protection	Yes					
Residual-Current Monitoring Unit	Optional					
Operating Temperature Range	+25°C...+60°C					
Night Time Power Consumption	<0.5W					
Cooling	Fan					
Relative Humidity	0-100%					
DC Connection	Copper Bus/Silver Bus					
AC Connection	Bus					
Warranty	15Year/3500 Cycle@60% DOD Whatever Earlier					
Display	16X4 LCD Display					

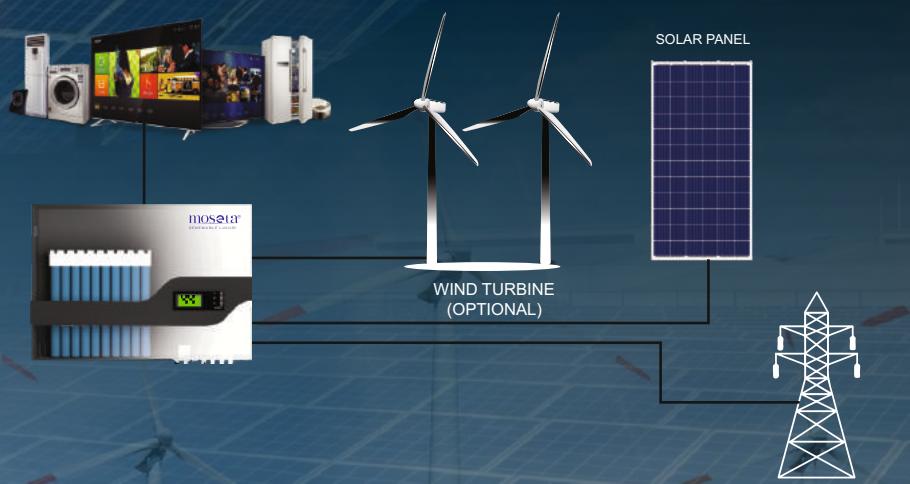
\*Tested on STD Bulb Load

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RENEWABLE LUXURY

# IRONMAN 15

Model: 5000 WATT



MORE POWERFUL  
THAN LEAD ACID

BIGGER DISPLAY

NO GRID CONSUMPTION  
IN DAY TIME

MORE LOAD  
HANDLING

ELECTRICITY  
SAVING

# IRONMAN 15

**Model:** 5000 WATT

## TECHNICAL SHEET

MODELS	48V/5000W	48V/5000W	48V/5000W
General DATA	5000	5000	5000
inverter/Battery Details	48V	48V	48V
Inverter Voltage	48V	48V	48V
Battery Voltage	1000	2000	3000
Watt Hour	Lipo4GR	Lipo4GR	Lipo4GR
Battery	Wall Mount	Wall Mount	Wall Mount
Body Type	Yes	Yes	Yes
Solar	94%	94%	94%
Efficiency	Blister Copper	Blister Copper	Blister Copper
Transformer Type			
Input DATA (DC)			
Maximum PV Power	6500W	6500W	6500W
Hybrid MPP Voltage Range	48-110	48-110	48-110
Solar VOC	110	110	110
Solar ISC Max	75	75	75
Output DATA (AC)			
AC Nominal Power	5000VA	5000VA	5000VA
AC Voltage Nominal	220-240	220-240	220-240
Maximum AC Apparent/Continous Power*	3600	3600	3600
Maximum Output Current	13.5	13.5	13.5
Adjustable Power Factor	0 Bleading 0 Blogging		
THDI	<3%		
AC Grid Connection Type	Single		
Protection Device			
DC Reverse Polarity Protection	Yes		
DC Switch	Yes		
AC/DC Surge Protection	Type II/Type II		
AC Short Circuit Protection	Yes		
Ground Faulting Monitoring	Yes		
Anti Islanding Protection	Yes		
Residual-Current Monitoring Unit	Optional		
Operating Temperature Range	+25°C...+60°C		
Night Time Power Consumption	<0.5W		
Cooling	Fan		
Relative Humidity	0-100%		
DC Connection	Copper Bus/Silver Bus		
AC Connection	Bus		
Warranty	15Year/3500 Cycle@60% DOD Whatever Earlier		
Display	16X4 LCD Display		

\*Tested on STD Bulb Load

# CLEAN GREEN & RENEWABLE

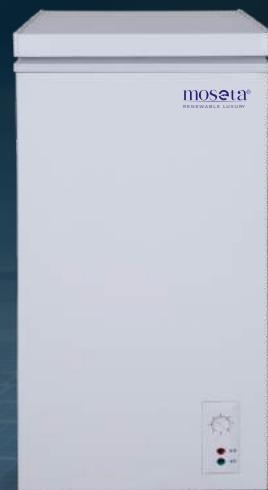
## REFRIGERATION SOLUTION



**BD/BC-325**



**BD/BC-125**



**BD/BC-225**

**BD/BC-100**

# CLEAN GREEN & RENEWABLE

## REFRIGERATION SOLUTION

Model No.	BD/BC-100H	BD/BC-125H	BD/BC-225H	BD/BC-325H	BD/BC-550H
Rated Voltage	DC 12/24V				
Rated Power	70W	75W	85W	90W	100W
Total Storage Capacity (L)	100	150	200	250	300
Condenser	Outside	Outside	Outside	Outside	Outside
G.W/N.W(kgs)	30/27	35/32	39/36	54/50	65/60
Temperture(cooling)	0-15°C	0-15°C	0-15°C	0-15°C	0-15°C
Temperture(freezing)	≤-18°C	≤-18°C	≤-18°C	≤-18°C	≤-18°C
Refrigerant	R134a/R600a	R134a/R600a	R134a/R600a	R134a/R600a	R134a/R600a
Foam Thickness(cooling)	65mm	65mm	65mm	65mm	65mm
Product Dimension(mm)	580*555*840	750*555*840	906*555*840	952*668*840	1110*668*840
Carton Dimension(mm)	620*580*885	790*580*885	946 580 885	990*670*885	1148*670*885
40HQ(pcs)	228	180	148	125	104

**FREEZER**  
110 ULTRA FOAM THICKNESS



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# FREEZER

110 ULTRA FOAM THICKNESS

Model No.	BD/BC-108H	BD/BC-158H	BD/BC-208H	BD/BC-258H	BD/BC-308H
Rated Voltage	DC 12/24V	DC 12/24V	DC 12/24V	DC 12/24V	DC 12/24V
Rated Power	47W	49W	68W	78W	95W
Total Storage Capacity (L)	100	150	200	250	300
Condenser	Outside	Outside	Outside	Outside	Outside
G.W/N.W(kgs)	43/39	46/42	53/49	65/60	79/73
Temperture(cooling)	0-15 °C	0-15 °C	0-15 °C	0-15 °C	0-15 °C
Temperture(freezing)	≤-18°C	≤-18°C	≤-18°C	≤-18°C	≤-18°C
Refrigerant	R134a/R600a	R134a/R600a	R134a/R600a	R134a/R600a	R134a/R600a
Foam Thickness(cooling)	110mm	110mm	110mm	110mm	110mm
Product Dimension(mm)	670*661*840	840*661*840	996*661*840	1038*745*840	1196*745*840
Carton Dimension(mm)	710*681*882	880*681*882	1036*681*882	1078*765*882	1236*765*882
40HQ(pcs)	153	132	123	99	90

Model No.	BD/BC-358H	BD/BC-408H	BD/BC-458H	BD/BC-508H
Rated Voltage	DC 12/24V	DC 12/24V	DC 12/24V	DC 12/24V
Rated Power	105W	110W	135W	157W
Total Storage Capacity (L)	350	400	450	500
Condenser	Outside	Outside	Outside	Outside
G.W/N.W(kgs)	84/78	88/83	97/91	109/103
Temperture(cooling)	0-15 °C	0-15 °C	0-15 °C	0-15 °C
Temperture(freezing)	-18°C	-18°C	-18°C	-18°C
Refrigerant	R134a/R600a	R134a/R600a	R134a/R600a	R134a/R600a
Foam Thickness(cooling)	110mm	110mm	110mm	110mm
Product Dimension(mm)	1380*745*840	1566*806*840	1676*806*840	1826*806*840
Carton Dimension(mm)	1420*765*882	1606*815*882	1706*815*882	1866*815*882
40HQ(pcs)	66	52	52	52

**moseta®**  
RENEWABLE LUXURY

**CLEAN & RENEWABLE**  
REFRIGERATION



# CLEAN & RENEWABLE

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## REFRIGERATION

### **DOUBLE DOOR**

Model	LC-658
Capacity	658L
Climate	N/ST
Voltage	24V
Power Consumption	240W
Refrigerant	R290
Foaming	Cyclopentane
Temperature	0~10 degree
Door	TRIPLE DOOR
Shelves	2*4PCS
Weight(kg) (Net)	115kgs
Weight(kg) (Gross)	133kgs
Product Dimension(mm)	1070*590*2000
Carton Dimension (mm)	1135*640*2090

### **TRIPLE DOOR**

Model	LC-958
Capacity	958L
Climate	N/ST
Voltage	24V
Power Consumption	345W
Refrigerant	R290
Foaming	Cyclopentane
Temperature	0~10 degree
Door	3
Shelves	3*4PCS
Weight(kg) (Net)	145kgs
Weight(kg) (Gross)	165kgs
Product Dimension(mm)	1605*590*2000
Carton Dimension (mm)	1665*640*2090

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## SOLAR SUBMERSIBLE PUMP



**BLDC PUMP**  
1 to 10 HP

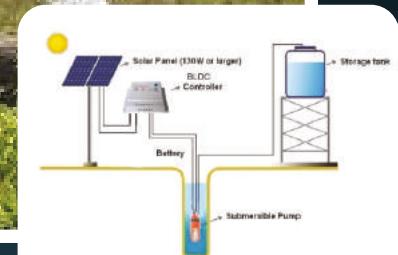


335 x N Panel



**Controller**

## SOLAR SUBMERSIBLE PUMP



### Features

- Brushless BLDC Motor
- Direct Current Motor
- High Efficiency
- In SS / MS
- Long Life

### Benefits

- Low Voltage Running (60V)
- Low Ampere Running
- More Durable than AC Pump Motor
- High Efficiency
- Direct On Solar/Battery

### Applications

- Drinking Water Supply
- Livestock Watering
- Irrigation

**1HP**

350 watt X N Panel(min)(60 Volt to 120 Volt) + BLDC Motor Pump + Controller

**2HP**

350 watt X N Panel(min) + 2HP BLDC Motor Pump + Controller

**3HP**

350 watt X N Panel(min) + 3HP BLDC Motor Pump + Controller

**5HP**

350 watt X N Panel(min) + 5HP BLDC Motor Pump + Controller

## BLDC FAN

220V / 30W DC Ceiling Fan



### Benefits

- Three blades with wide span to cover maximum area.
- Comes with three speed modes.
- Can run directly on solar panel or through Magic Box or 220V AC .
- Best for house, shops, small workshop, study room.

### Features

- Smart Remote with Sleep, Timer and Boost Mode
- Brushless Technology
- Most Energy Efficient Fan
- No humming Noise
- 5 Years (1+4 ) Warranty
- Savings upto Rs 1500 Per Year
- long life motor.
- Comes with easy plug and play open wire.

### Product Specifications

Brand	Moseta
Fan Type	BLDC FAN
Number of blades	3
Power consumption	28W
Speed	380rpm
Sweep	1200 mm
Color	White, Ivory, Brown
Model	MONK SERIES
Warranty	3 years
Finish	Matt
Product code	1025

## Moseta LiFePO4

Lithium Iron Phosphate



### Product Size

Weight: 25.57LBS (11.6kg)



(Bike, Car, Bus, Truck Battery)



	Lifepo4 Moseta	Lead Acid Battery
Life Time	10 Years	3 Years
Cycles	4000-8000 Times	200-500 Times
Load Power	1664	600W
Weight	25.58lbs	3 Times The Weight

# Moseta

**LiFePO<sub>4</sub>**

Lithium Iron Phosphate

Voltage Capacity	Reference Endurance	Battery Weight	Product Size
48V/15Ah	~20~40km	6.5kg	180*150*210mm
48V/20Ah	=30~50km	7.2kg	180*150*210mm
48V/25Ah	=40~60km	8.5kg	180*150*210mm
60V/20Ah	=30~50km	8.2kg	185*160*265mm
60V/25Ah	=40~60km	10.5kg	185*160*265mm
60V/35Ah	=70~90km	12.5kg	185*160*265mm
60V/45Ah	~90~130km	15.5kg	180*160*360mm
60V/55Ah	=120~160km	17.5kg	180*160*360mm
60V/65Ah	=160~200km	20kg	340*220*185mm
72V/45Ah	=90~130km	16.5kg	340*220*185mm
72V/55Ah	≈120~160km	18.5kg	340*220*185mm
72V/65Ah	=160~200km	21.5kg	340*220*185mm
72V/85Ah	=220~260km	28kg	460*250*165mm
72V/100Ah	-260~320km	35kg	460*250*165mm

# MONOCRYSTALLINE

**Availability:** Solar Panel: 370Watt, 570Watt



144 cells  
MONOCRYSTALRELINE HALFCUT

upto 21.50%  
EFFICIENCY

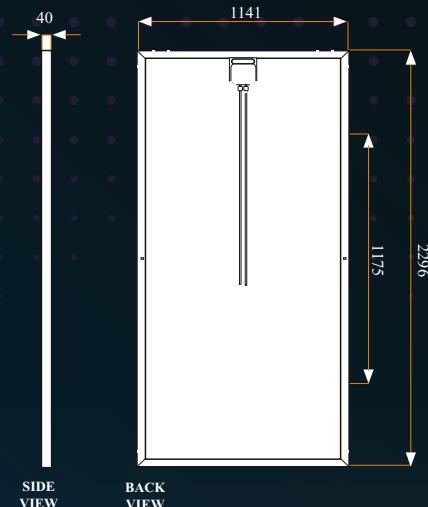
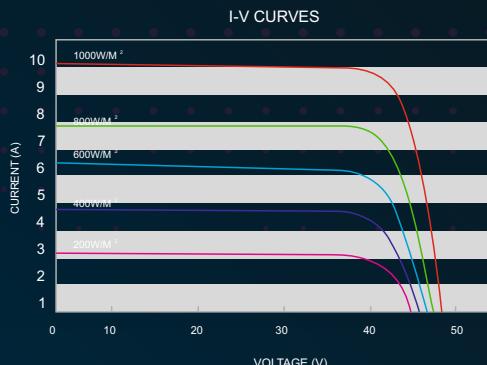
525-570  
RANGE

Cell Type
Cell Arrangement
Dimension
Weight
Front Cover
Frame Material
J-Box

MECHANICAL DATA	
91 x 182mm	
144 Halfcut Cells	
2296 x 1141 x 40 mm	
29.5 kg	
3.2 mm tempered glass	
Anodized Aluminium Alloy	
Ip68, 3 diodes	

# MODULE:

## 525-570W(144 halfcut Cells)



### ELECTRICAL SPECIFICATION

Electrical parameters at standard test conditions  
(STC:AM=1.5, 1000W/m<sup>2</sup>. Cells Temperature 25°C)

Model Type	EXSP 144HC525	EXSP 144HC535	EXSP 144HC540	EXSP 144HC550	EXSP 144HC560	EXSP 144HC570
Nominal Max. Power (Pmax)	525W	535W	540W	550W	560W	570W
Optimum Operating Voltage (Vmp)	41.2V	41.5V	41.65V	42.05V	42.40V	42.72V
Optimum Operating Current (Imp)	12.75A	12.9A	12.97A	13.08A	13.21A	13.34A
Open Circuit Voltage (Voc)	49.05V	49.35V	49.5V	49.88V	50.23V	50.55V
Short Circuit Current (Isc)	13.65A	13.78A	13.85A	14.11A	14.24A	14.36A
Module Efficiency	20.04%	20.42%	20.61%	20.99%	21.38%	21.76%
Power Tolerance			0 to +6W			
Maximum System Voltage			DC 1500V			
Operating Temperature			-40 C - +85 C			
Maximum Series Fuse Range			30A			
Number of Bypass Diode			3			

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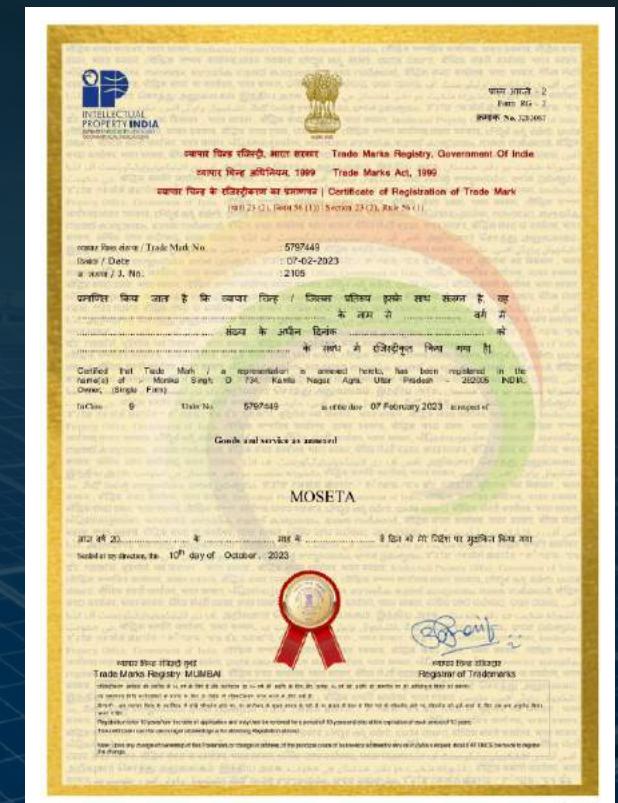
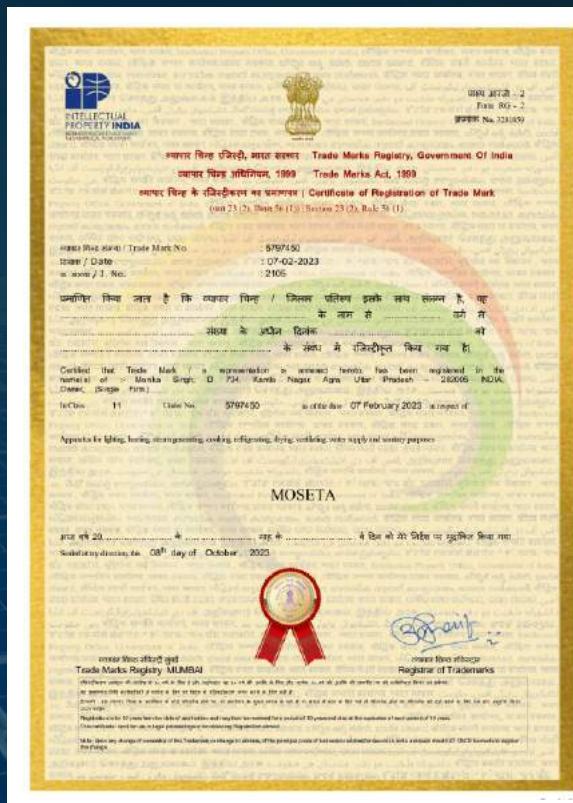
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# CERTIFICATION



## Two Important Questions and Answers

1. "Can you explain the key differences between traditional air conditioners and solar air conditioners in terms of their operation, energy efficiency, and environmental impact?"
2. "What are the advantages and disadvantages of using normal aluminum inverters compared to solar hybrid inverters with lithium-sodium batteries in terms of energy storage, longevity, and overall performance?"

Firstly, traditional air conditioners and solar air conditioners differ mainly in their source of power. Traditional air conditioners rely on electricity alone, while solar air conditioners harness energy from the sun through photovoltaic panels and then convert it into electrical power for operation. This difference in power source gives solar air conditioners an advantage in terms of energy efficiency and environmental impact. Solar air conditioners can significantly reduce electricity bills and carbon emissions, making them a greener choice.

In terms of energy efficiency, traditional air conditioners have made great strides in recent years, with many models being quite efficient. However, solar air conditioners stand out due to their ability to offset their energy consumption with renewable solar power.

Moving on to your second question, normal aluminum inverters and solar hybrid inverters with lithium-sodium batteries differ in terms of energy storage, longevity, and overall performance. Normal aluminum inverters are usually used in traditional setups and they store energy from the electrical grid. However, solar hybrid inverters with lithium-sodium batteries have the advantage of storing energy from solar panels, which allows for a more sustainable and independent power source.

The advantages of solar hybrid inverters with lithium-sodium batteries include longer lifespan, higher energy density, and better performance in varying environmental conditions. On the other hand, they can be more expensive than traditional aluminum inverters and may require specialized maintenance and handling.

In conclusion, both solar air conditioners and solar hybrid inverters with lithium-sodium batteries offer compelling advantages in terms of energy efficiency and environmental impact. However, they also come with their own set of considerations based on cost, maintenance, and infrastructure requirements.

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