



SOLAR AND WIND PRODUCTS

SECURITY & SURVIELENCE FOR DEFENCE



MANUFACTURER
IYSERT ENERGY RESEARCH PRIVATE LIMITED
IYSERTTOWER3132 , GURUKRIPANAGAR , KALWAR ROAD , JAIPUR 302012

www.iysertenergy.com

A B O U T U S

IYSERT ENERGY RESEARCH PRIVATE LIMITED, a National Awardee Company, is revolutionizing the renewable energy industry with its world-class research and development. As an ISO 9001:2015, BIS, TUV, IEC, NISE, NSIC certified, and MNRE approved channel partner company, IYSERT specializes in manufacturing portable solar-based technology, vertical axis wind turbines, and bio waste to energy technology. With a state-of-the-art 20 MW Solar module manufacturing unit in Jaipur, Rajasthan, India, IYSERT has completed over 5000+ successful projects for clients such as TATA, Shree Cement, Indian Railways, Indian Army, DRDO, ISRO, and DFC Metro Project. Their Indian-made revolutionary products include Solar Inbuilt Street Lights, Solar Cameras, Solar Trees, Solar Benches, Solar Jackets, and Solar Wind Turbines.



The National Small Industries Corporation Ltd.



National Awardee Company



RECIPIENT OF 3 NATIONAL AWARD IN 2022-23

RECOGNIZED AND HONoured BY



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MINISTRY OF
NEW AND
RENEWABLE ENERGY
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WIND TURBINES



PORTABLE SOLAR GENERATOR



WIND SOLAR CAMERA



SOLAR STREET LIGHT



SOLAR CAMERA



SOLAR BENCH

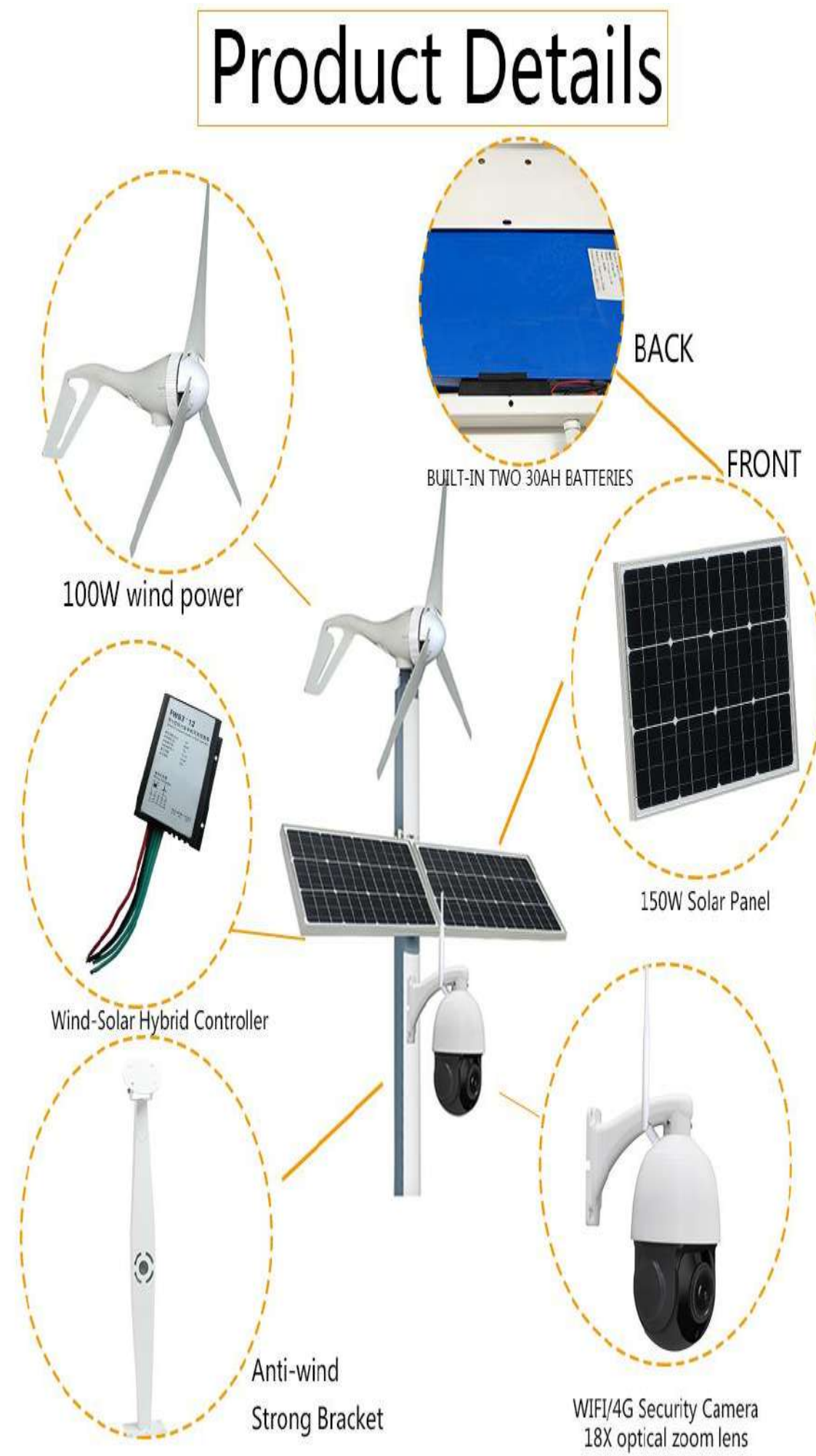
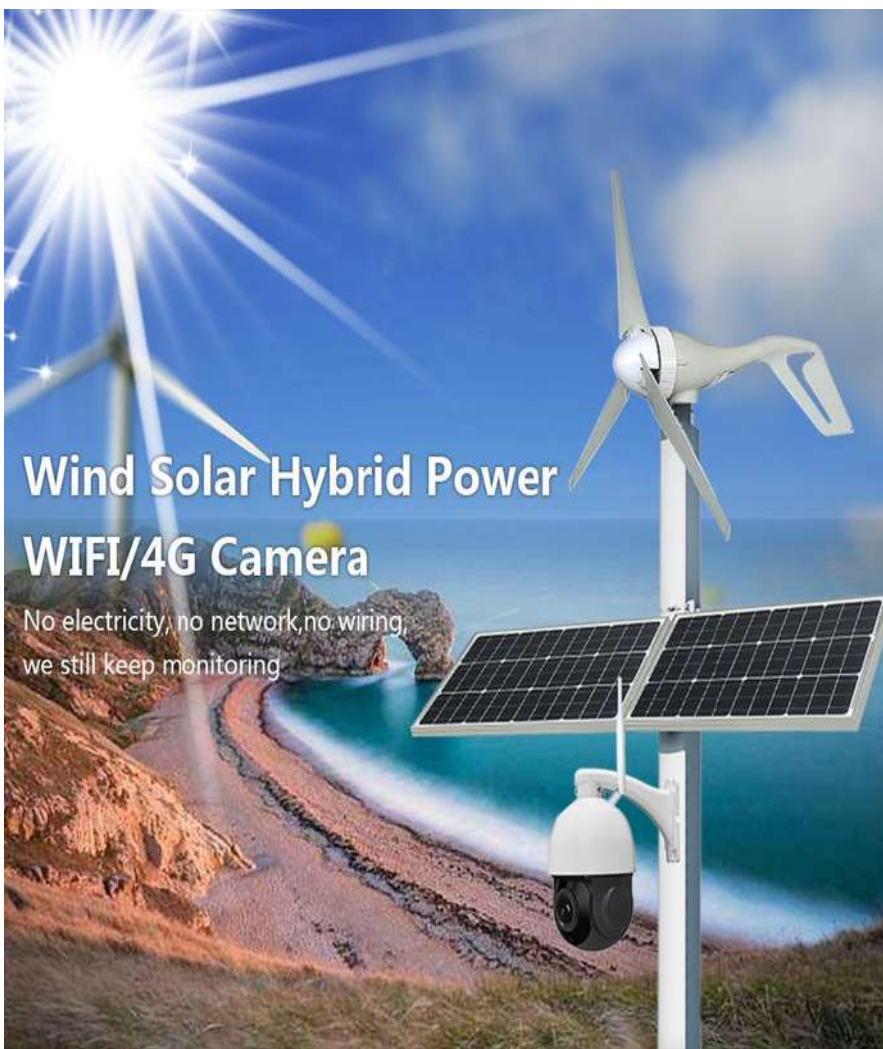


SOLAR TREE



SOLAR WIND TURBINE

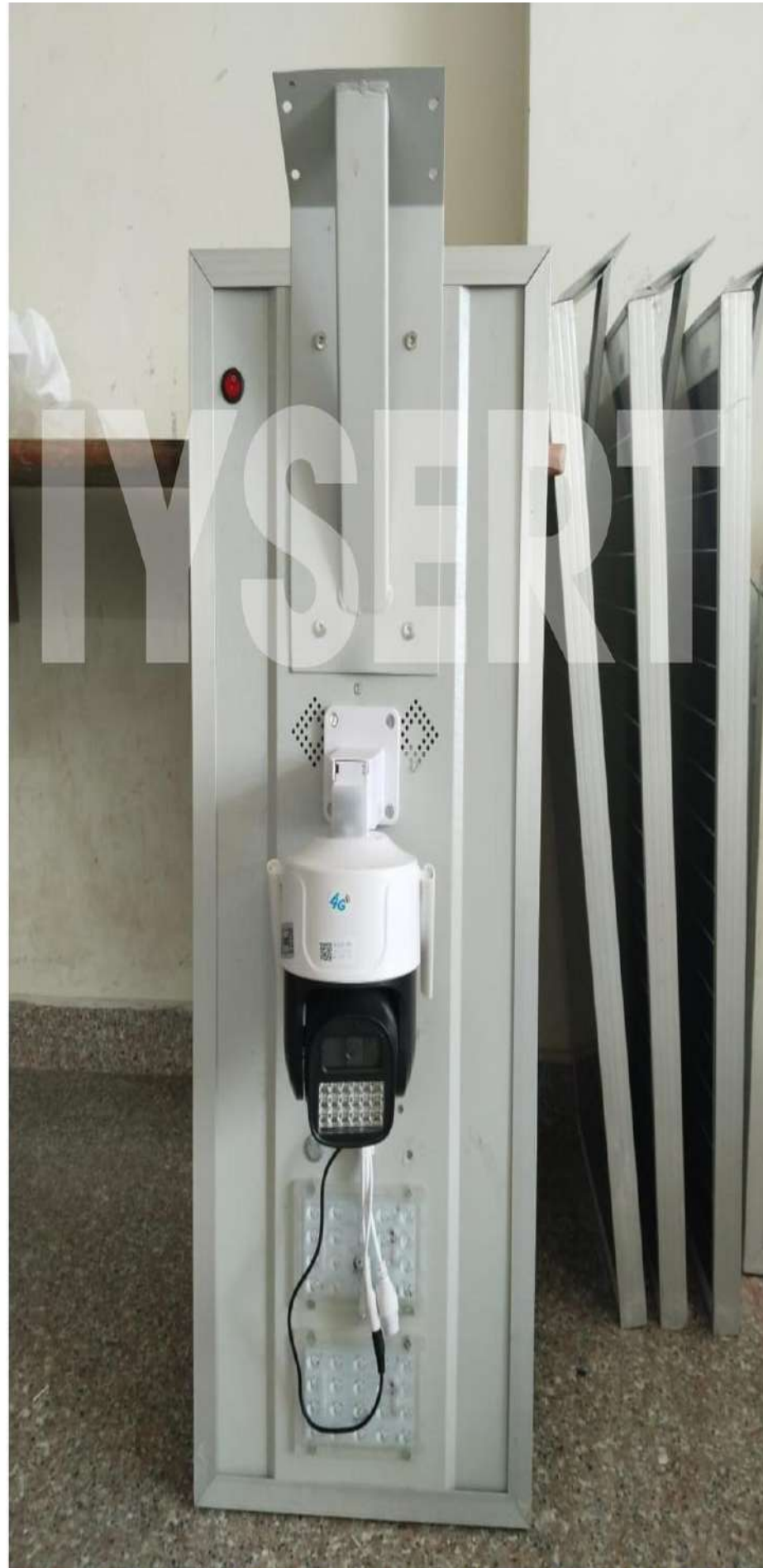
IYSERT SOLAR WIND 4GE CAMERA (MODEL 2MP-8MP)



2MP WIND SOLAR CAMERA – Rs 65000/-
5MP WIND SOLAR CAMERA-Rs 75000/-
8MP WIND SOLAR CAMERA– Rs 95000/-



IYSERT SOLAR POWER CAMERA (2MP – 5MP SIM CARD BASED)



Rs 35000/-



IYSERT SOLAR POWER CAMERA

IYSERT INFRA
DELIVERING INFRASTRUCTURES

It offers a sustainable, wireless solution for surveillance in outdoor areas where traditional power sources are unavailable.



5MP SOLAR CAMERA



12.8V/30AH LiPO4 Battery



60W SOLAR MODULE



10%
Discount

More Information :



91-91166 88892



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5MP Bullet Camera

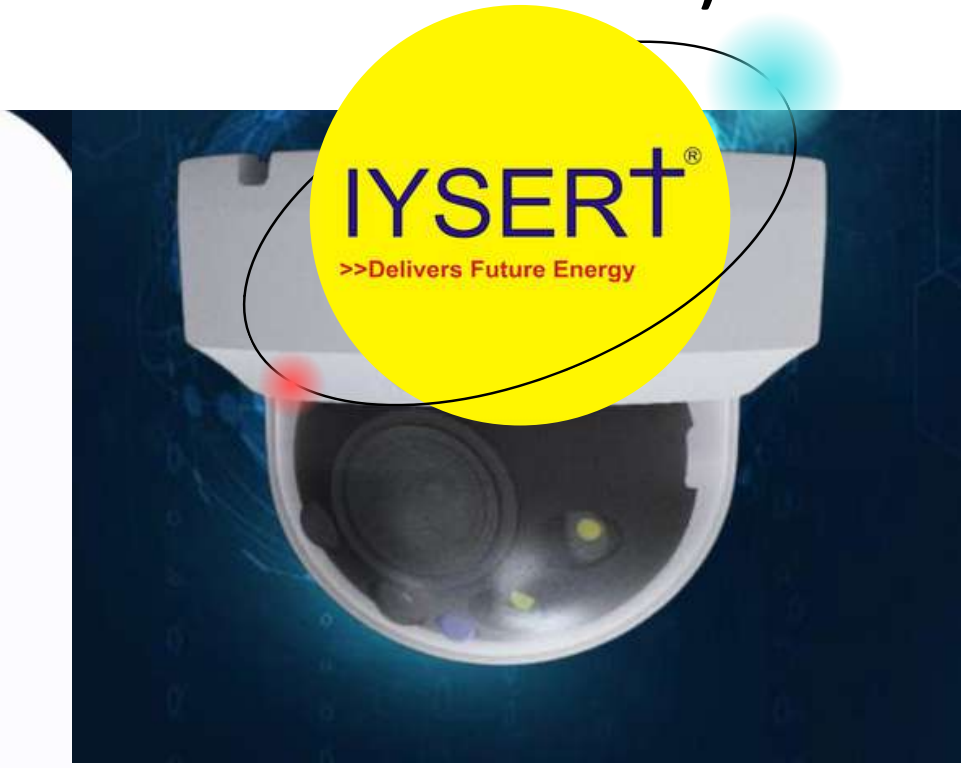
- 1/2.8" Low Illumination Progressive Scan CMOS Sensor
- Quad Streaming
- Multiple compression techniques H.265/H.264/MJPEG
- Support 3D DNR, HLC, WDR
- Support bi-directional Talk
- IP67 Complaint
- OWASP Rev. 4.0 Level 2 Cyber Security Certified by STQC

IR Distance 3.6mm: 20-30Mtr 8mm: 50-60Mtr 2.7-13.5mm:50-60Mtr 5-50mm: 80-100Mtr



5MP Dome Camera

- 1/2.8" Low Illumination Progressive Scan CMOS Sensor
- Quad Streaming
- Multiple compression techniques H.265/H.264/MJPEG
- Support 3D DNR, HLC, WDR
- Support bi-directional Talk
- IP67 Complaint
- OWASP Rev. 4.0 Level 2 Cyber Security Certified by STQC



8MP Bullet Camera

- 1/2.8" Low Illumination Progressive Scan CMOS Sensor
- Quad Streaming
- Multiple compression techniques H.265/H.264/MJPEG
- Support 3D DNR, HLC, WDR
- Support bi-directional Talk
- IP67 Complaint
- OWASP Rev. 4.0 Level 2 Cyber Security Certified by STQC



Camera	
Image sensor	1/2.8", 4K Low Illumination Progressive Scan CMOS Sensor
Effective Pixels	3840(H)X2160(V)
Aspect Ratio	16:9
Min. Illumination	Color: 0.001Lux @ (F1.2, AGC ON), 0.014 Lux @ (F1.4, AGC ON), 0 Lux with IR
S/N Ratio	≥58dB (AGC OFF)
IR Distance	3.6mm: 20-30Mtr 8mm, 2.7-13.5mm: 50-60Mtr 6-22mm: 80-100Mtr
Shutter Speed	Auto, Slow Shutter, (1/5 sec ~ 1/100,000 sec Adjustable)
Slow Shutter	On/ Off
WDR	Up to 120 dB, TWDR (Off/ Low/ Middle/ High)
IR LED Control	Auto, Manual, OFF
3D DNR	Low, MID-Low, MID, MID- HIGH, High
Day/Night	ICR switch, Auto, Color, B&W, External Trigger
Defog	Off, Low, Middle, High
Output	PAL/NTSC adjustable
Lens	
Lens Type	2.8-12mm Motorized Zoom Lens (Optional: 3.6mm, 8mm, 6-22mm Motorized Lens)
IRIS Control	Auto
Angle Of View	3.6mm- Horizontal:89°, Vertical:47°,Diagonal:105°(D), 8mm-45°(H)26°(V)55°(D), 2.7-13.5mm- Horizontal: 121.36° to 34° Vertical: 52° to 19° Diagonal: 116° to 40° 6-22mm- Horizontal: 50° to 15° Vertical: 30° to 11° Diagonal: 47° to 13.5°
Mount Type	M14
Focus Control	Auto/ Manual
Video	
Compression	H.265/H.264/MJPEG
H.265 Encoding	Main Profile
H.264 Encoding	Baseline / Main Profile / High Profile
Streaming Capability	Quad Streams
Resolution	4K/4MP/2MP/720P/VGA
Streams	Mainstream: 4K (3840X2160)@25/30fps Sub Stream: 1080P (1920X1080)@25/30fps Third Stream: VGA(640x480)@10fps Fourth Stream: VGA(640x480)@10fps
Frame Rate	1~ 30fps
Video bit Rate	Constant bit rate, variable bit rate (16kbps-16Mbps)
I - Frame	2 -255
Color Mode	Normal, Bright, Nature
Exposure Mode	Off, High Light correction, Backlight Correction, Range (1-10)
BLC Mode	1-10 configurable Levels

RANGE OF ALL IN ONE SOLAR STREET LIGHT

- ✓ Easy installation. No cable needed.
- ✓ Lithium-ion LiFePO4.
- ✓ High efficiency Mono solar panel.
- ✓ Famous brand LED chip from EPISTAR.
- ✓ Mounted convenient, pole, wall, tree etc.
- ✓ Light output can be adjusted automatically by a built-in infrared sensor.
- ✓ Modularity design. Easy assemble and maintenance.
- ✓ Compact volume and light weight design saves freight cost and installation cost.
- ✓ Rust-proof, dustproof and IP65 waterproof Safety and reliability.



50W SOLAR STREET LIGHT
Rs 13500 +12%



60W SOLAR STREET LIGHT
Rs 16500 +12%



120W SOLAR STREET LIGHT
Rs 21500 +12%



SOLAR HIGH MAST (ALL IN ONE & SOLAR HIGH MAST)



First Time
in India

120W SOLAR HIGH MAST LIGHT

Adjustable battery up to 90AH LiPO4 battery.
Mast height 6m, 9m, 12m ,16m



iysertsales@gmail.com



www.iysertenergy.com
Jaipur, Rajasthan

Rs 215000/-

www.iysertenergy.com



SOLAR WIND TURBINE RANGES (1KW-100KW)



PRODUCT APPROVED IN INDIAN ARMY

**JAULINGCOM POST , UTTARAKHNAD
TO
NATHULABORDER , NORTH EAST**

**SUPPLIED MORE THAN 5 MW SOLAR
WIND TURBINE ACROSS THE BORDERS**

- 12 ENGINEERS 6
- ENGINEERS 68
- ENGINEERS 428
- ENGINEERS
- MES BRO
-
- EME
- DRDO
- BSF
- 24 GRANADIERS
- PROJECT HIMANK

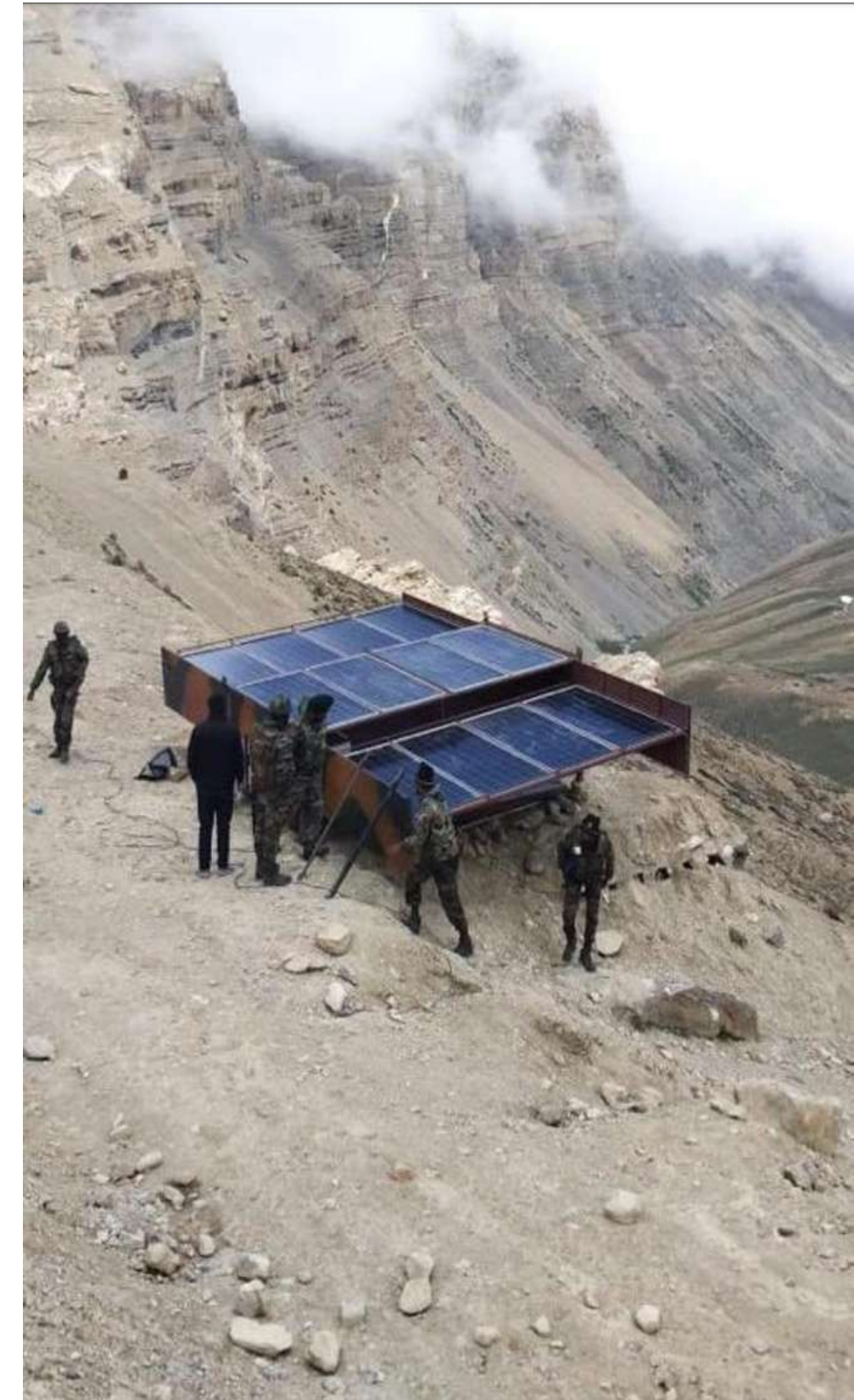
5 KW FIELD ELECTRIFICATION SYSTEM



- >INBUILT SYSTEM WITH LIPO4 BATTERY
- UNIT MOVEMENT EASILY
- TYRE INBUILT MATERIAL
- MILITARY GRADE MATERIAL

Rs 8 lacs + GST

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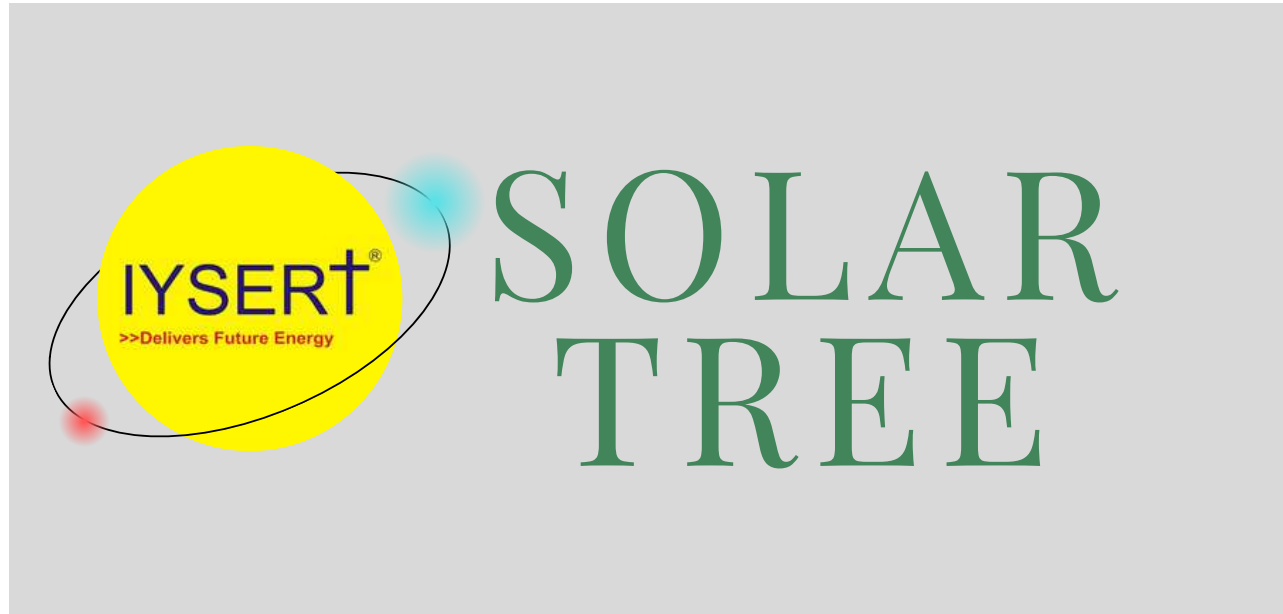


SOLAR POWER TREE



5 KW | 10KW | 20KW SOLAR TREE INSTALLED IN VARIOUS MES (MATHURA , GE GANGTOK, NAGPUR)





RECENT NEW TECHNOLOGY INTEGRATION FOR INDIAN ARMY VEHICLES



IYSERT SPIRAL WIND TURBINE

Best fit for Highways, Roads and With integrated Solar Street Light system.
Available Only for Commercial & Government Projects in the range of 100w to 5kw.

CONTACT US!

 www.iysertenergy.com

 sales@iysertenergy.com

 9116688892/ 8233300677



IYSERT[®]
»Delivers Future Energy

IYSERT VERTICAL AXIS WIND TURBINE

wind energy provides a sustainable, clean, and increasingly affordable way to generate electricity, contributing to a more sustainable energy future.

- ✓ Renewable
- ✓ Sustainable
- ✓ Cost-Effective
- ✓ Low Maintenance
- ✓ Environmentally Friendly
- ✓ Scalable and Flexible

Contact Us ▶



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91-91166 88892
91-8233300677



Website:
www.iysertenergy.com





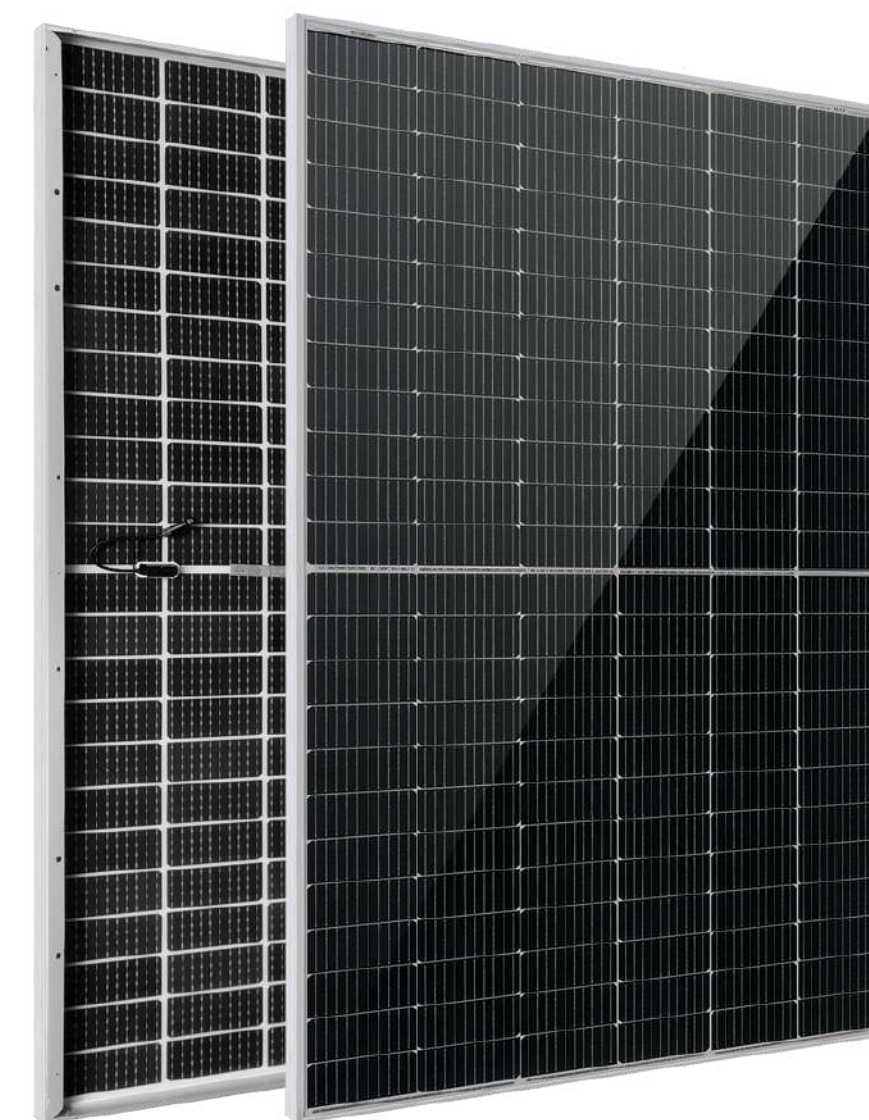
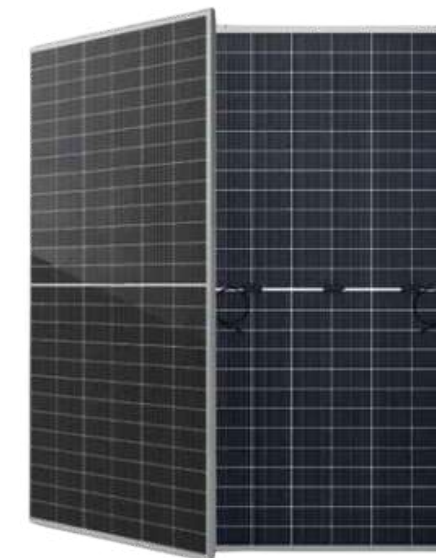
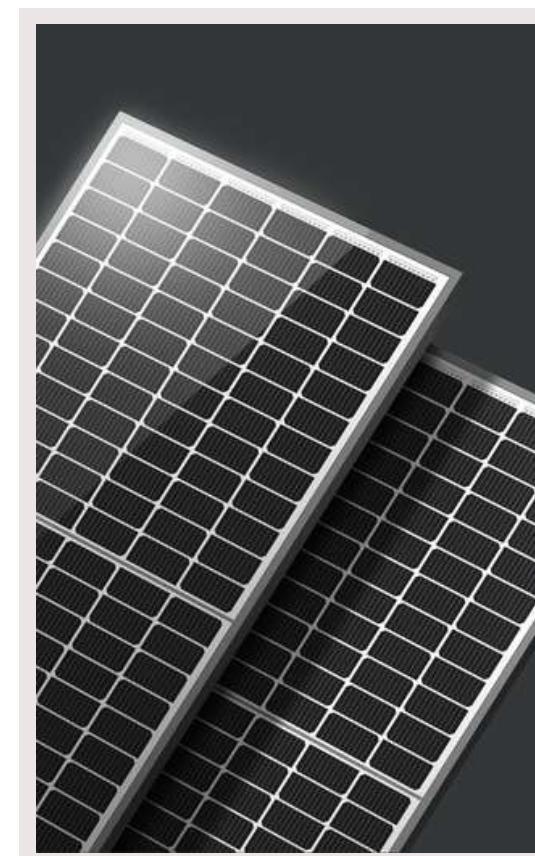
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12 YEARS OF EXCELLENCE IN SOLAR & WIND SECTOR



**Manufacturer of All types of Solar Modules
ranging from 40Wp to 650Wp Topcon Modules |
HJT | BIPV COLOURFUL MODULES |**



IYSERT[®]

>>Delivers Future Energy

IYSERT

SOLAR MODULES

Key Features

1. High Module Conversion Efficiency, Module efficiency up to 24 % achieved through advanced cell technology and manufacturing process.

2. Advanced Technology
MBB- Multi Busbar (16-18BB) / Halfcut MONOPERC cells /Ga Doped Wafers.

3. Positive Tolerance
Power output with a positive tolerance.

4. Excellent performance in low light
Superior output in low irradiance. Increased power production even in low-light environments.

5. Extended Wind and Snow Load Tests
Certified to withstand: wind load (2400 Pascal) and Snow load (5400 Pascal).

6. Excellent PID Resistance
Excellent Anti-PID performance and certified for up to 288 Hrs

7. Withstanding a Harsh Environment
Reliable quality leads to better sustainability, even in harsh environments such as deserts, farms, coastal and the areas with ammonia exposure

8. Rigorous Testing Criteria 100% IV Measurement, HiPOT test and EL & visual inspection, ensures defect-free modules

9. Bifaciality Factor 70 +_5% The ratio of rear efficiency in relation to the front efficiency subject to the same irradiance

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Technical Specification 40W TO 600W TOPCon

	Poly						Mono Perc		
Type	IYSERT40WP	IYS ERT50WP	IYSERT75WP	IYSERT100WP	IYSERT170WP	IYSERT335WP	IYSERT180WP	IYSERT200WP	IYSERT395WP
Peak Power Pmax (wp)	40	50	75	100	170	335	180	200	395
Maximum Voltage Vmpp(V)	18.2	18.2	18	18.1	18.9	39	19.36	20.6	49.4
maximum current Immp(A)	2.25	2.8	4.17	5.52	9.01	8.6	9.31	9.72	10.47
Open Cirut Voltage Voc(V)	21	21.4	22	22.1	22.7	46.15	23.9	24.9	40.8
Short Circuit Current Isc (A)	2.75	3.3	4.67	6.11	9.33	9.09	9.77	10.31	9.81
Module Efficiency(%)	13.88	13.82	14.26	14.78	17	17.26	16.48	20.05	20.06
Length x width x Height (mm)	415X670X34	505X670X34	705X670X34	905X670X34	1495X670X35	1960X990X35	1335X670X35	1495X670X35	1985X1000X35

	MONO PERC					TOPCon		
Type	IYSERT540WP	IYSERT545WP	IYSERT550WP	IYSERT555WP	IYSERT560WP	IYSERT580WP	IYSERT590WP	IYSERT600WP
Peak Power Pmax (wp)	540	542	550	555	560	580	590	600
Maximum Voltage Vmpp(V)	41.81	41.9	41.93	42.05	41.77	43.52	44.05	44.68
maximum current Immp(A)	12.92	13.02	13.12	13.2	13.41	13.33	13.38	13.43
open cirut Voltage Voc(V)	49.81	49.76	49.9	50.01	50.45	51.19	51.24	51.19
short Circuit Current Isc (A)	13.51	13.9	13.98	14.05	14.15	14.06	14.26	14.46
modult Efficiency(%)	20.92	21.12	21.29	21.48	21.98	22.45	22.84	23.22
Lengthx widthx Height (mm)	2278X1134X35					2278X1134X35		



IYSERT HYDROGEN

DELIVER'S FUTURE ENERGY

Green hydrogen emerges as a superior fuel compared to fossil fuels and petrol for several compelling reasons.

Its environmental impact is significantly lower; when burned, green hydrogen releases only water vapor, avoiding the greenhouse gas emissions that contribute to climate change.

This stark contrast to fossil fuels, which emit harmful carbon dioxide and other pollutants, makes green hydrogen a key player in reducing air pollution and mitigating global warming.

An infographic featuring a central glowing lightbulb held by a hand. Surrounding the lightbulb are various green energy icons: a recycling symbol, a lightbulb, a DNA helix, a house, a battery, a leaf, a factory, a globe, and a wind turbine. The background is a blurred image of green foliage.



Improved Fuel Efficiency

In the experiment, it resulted in an **average of 30% improvement in fuel efficiency** when installing HYO in actual cars.

- Optimal Size (Size of 1 pack of A4 paper)
- Optimal use of power : Lowest Target Voltage for Hydrogen Generation
- Currently 2.3v~2.5v During measurement : target at 1.92v
- Convenient Installation, takes 20~30min. (Different by car type)
- An average of 30% fuel efficiency improvement
- Over 90% of automotive exhaust reduction

On-Site Hydrogen Production/Supply method

Off-Site hydrogen charging method



HYO's On-Site Hydrogen Charging Method



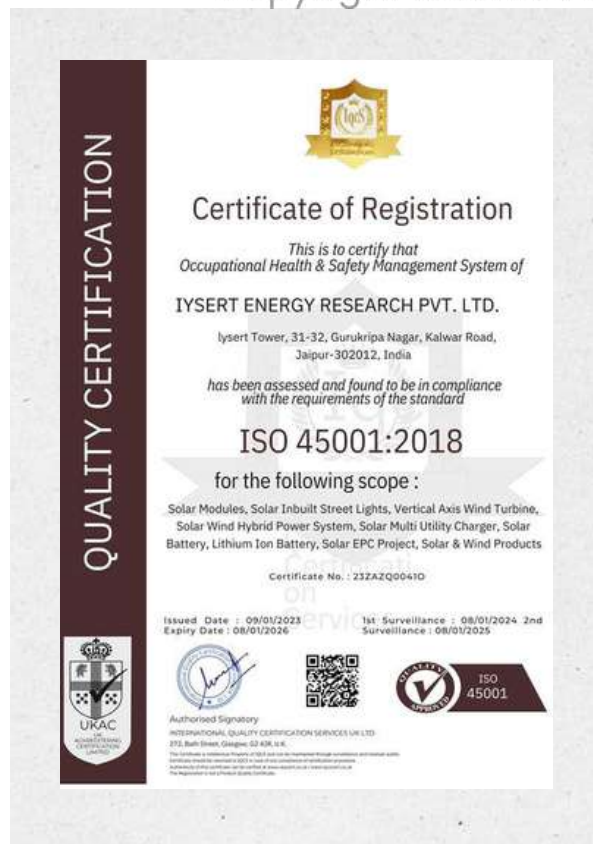
A Product of IYSERT Group



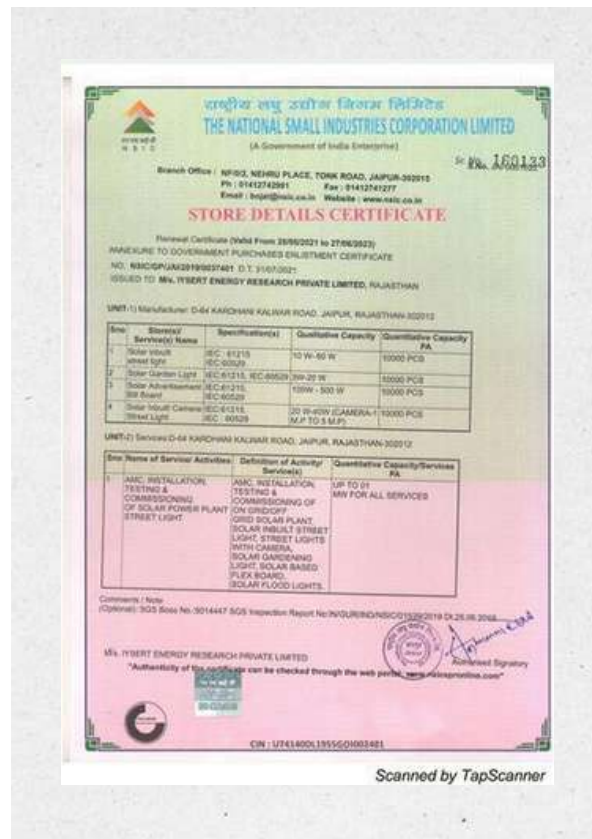
Verified at least a 30% improvement in actual driving fuel efficiency

+30%





YOUR TRUST OUR GUARANTEE



Our Milestone Projects

We have Completed morethan 15000+projects
all over India from Kashmir to kanyakumari.



Our Cluster of Happy Customer



#SERVING NATION WITH GREEN ENERGY