



PATANJALI  
*Anant Urja Srot...*

**GREEN  
REVOLUTION**  
THE BEST SOLUTION  
TO ARREST POLLUTION



# सौर ऊर्जा से उज्ज्वल होगा भारत

योगक्रषि स्वामी रामदेव जी

**“MAY THE  
NATION SHINE”**



Harnessing nature.. With our devotion.. Lighting up life's..



"It is our dedicated endeavour to create a fossil fuel free nation by harnessing energy from nature through indigenous manufacturing processes with the latest technologies."

परम पूज्य श्रद्धेय आचार्य बालकृष्ण जी

**"MAY THE NATION SHINE "**



# ABOUT US

## PATANJALI GROUP

Patanjali began its operations with Patanjali Yogpeeth in Haridwar, Uttarakhand. Today, it is one of the largest yoga institutions in the world. Patanjali Ayurved Limited was founded by Swami Ramdev in 2006 along with Acharya Balkrishna for research, development, treatment, and the manufacturing of ayurvedic medicines.

After entering the bulk ayurvedic medicines manufacturing space, Patanjali later branched out its operations to the FMCG market where it soon established its presence as a major consumer goods manufacturing company.

Patanjali has shown immense growth in the last 5 years. Growing at a fast rate, the company generated over Rs 10,000 Crore in 2017, making it the third largest FMCG brand after Hindustan Lever Limited and ITC in terms of overall revenue.

### PATANJALI's GROWTH TIMELINE



### PATANJALI SOLAR

Patanjali's entry into the renewable energy sector is a result of Swami Ramdev and Acharya Balkrishna's vision to reach a large portion of India's population by catering to their electricity-related needs through natural energy solutions. We have set up a state of the art semi-automated manufacturing plant with a current production capacity of 150 MW.

Patanjali Renewable Energy is a comprehensive and independent renewable energy service provider with a combined strength of 250 employees each trained and skilled in their respective genre of work. We are pioneers in the field of renewable energy sector and all our efforts are directed toward the betterment of our nation.

Our mission and vision stem from the demand for minimizing global warming through renewable energy technologies and by integrating environmentally-friendly business practices.

"We aim to bring ***The Green Revolution*** to India."



## DIRECTOR MESSAGE

“Our aim is expand our footprint through national and international partnerships using our production and distribution channels to achieve the aim of total sun power for all.”

**KRISHNA KADARIYA**

**“INDIA FIRST INDIAN FIRST (SWADESHI)”**

## OUR TEAM



**Alok Panday**  
*Chief Financial Officer*



**Kamal Vyas**  
*GM - Production*



**Neelaish Razdan**  
*AGM - Supply Chain*



**Hemant Tyagi**  
*Chief Technical Officer*



**Vikrant Verma**  
*V.P - Product Development*



**Dharmendra Bhaduriya**  
*GM - Sales*

# **OUR VISION STATEMENT:**

Our vision is to reduce the use of fossil fuels and make the most of the limitless sunlight to solve electricity issues in rural and urban areas in India. We want to be responsible leaders in providing clean solar-energy solutions and protecting the Earth's natural resources. Patanjali Renewable Pvt Ltd. is all about harnessing solar energy to brighten up the future of our country.

# **OUR MISSION STATEMENT**

While our primary goal is to achieve 500 MW Production capacity with new technology of 9BB by the end of 2021.

our mission also includes setting up:

- Patanjali Urja Kendra's in Every City, Town & Villages of India
- EV charging stations & portable EV Chargers
- Electrifying Rural and Remote Areas through Mini-grids
- Lithium & Other Future Storage Solutions

**We are also coming up with 1000 MW Capacity cell manufacturing plant in Assam.**

# **WHY CHOOSE PATANJALI SOLAR:**

- India's Most Trusted Brand.
- 30 Years Warranty.
- Door to Door Service.
- Complete Solar Solutions.
- Certified BIS & IEC Approved Products.

# AWARDS & RECOGNITION

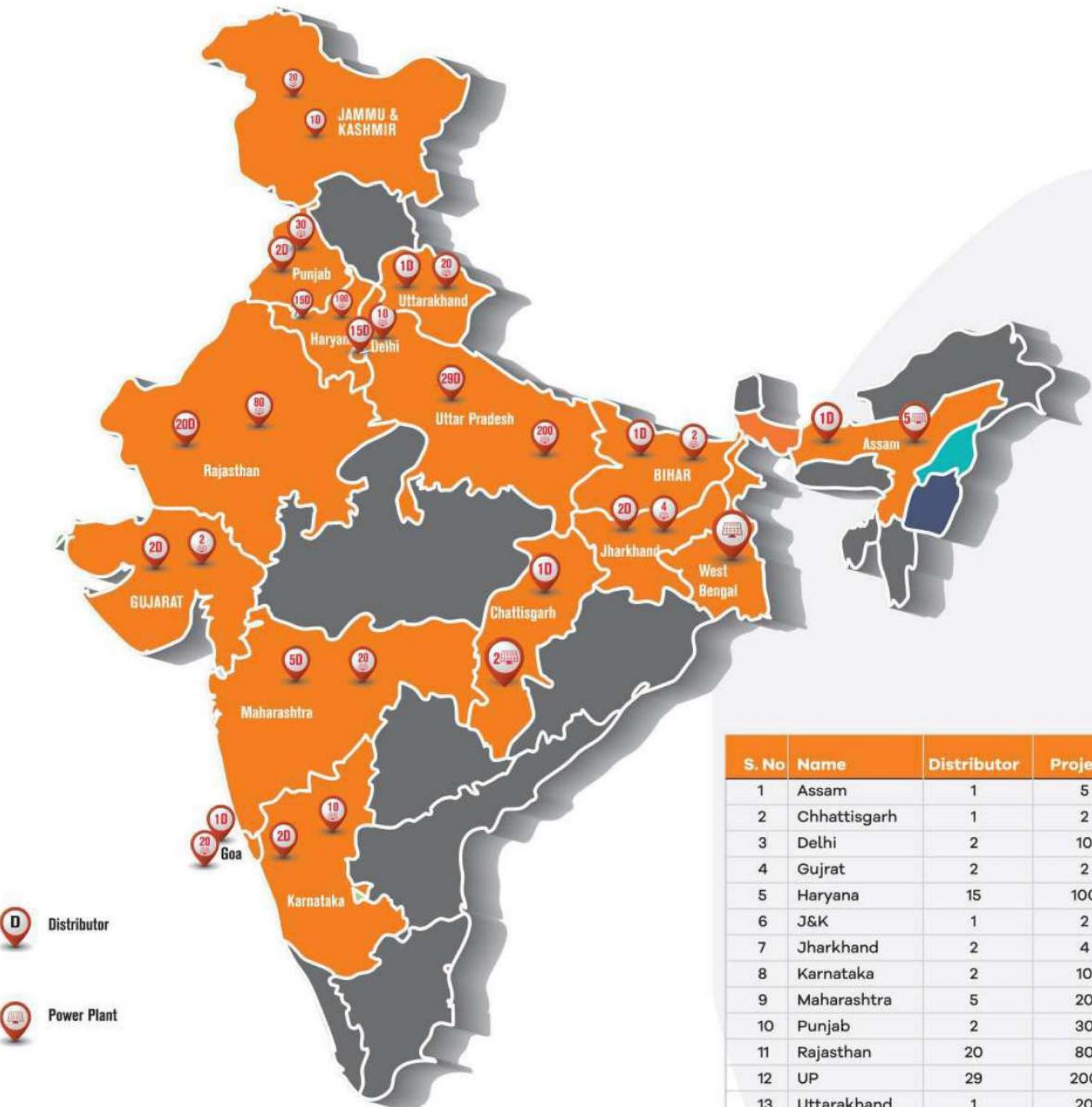


# AWARDS & RECOGNITION



**India's Most  
Trusted Brand**

# OUR PRESENCE



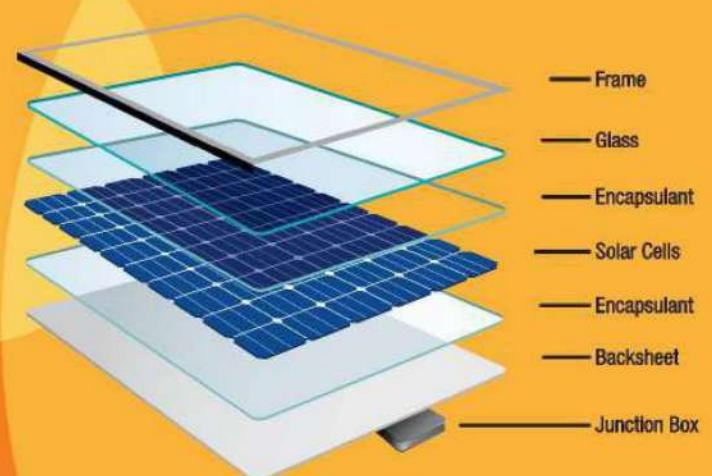
# OUR MANUFACTURING FACILITY

PATANJALI PRESENTS HIGH PERFORMANCE SOLAR PV PANELS MANUFACTURING AT OUR STATE OF ART PRODUCTION FACILITY.



## Manufacturing Process

Our international standard quality raw material makes a most reliable choice as all product are only disbursed after a thorough quality check and testing. Our product also come with high quality packing.

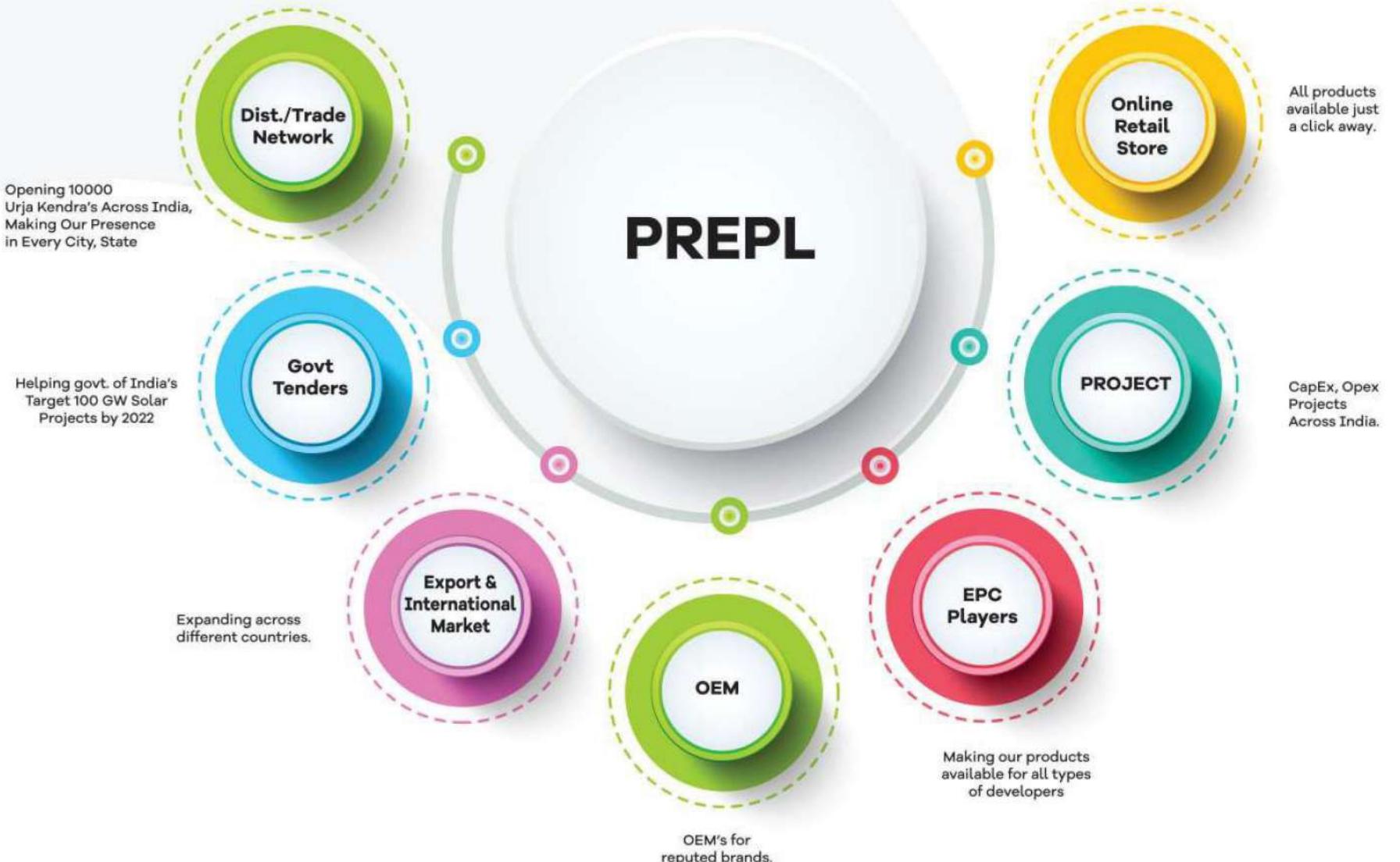


# SOLAR SCENARIO IN INDIA

- The government has set an ambitious target of installing 175 GW of renewable energy capacity by 2022, which includes 100 GW from solar. (Source: ET Energy)
- Total installed capacity of solar is 33.37 GW up till 31st Dec 2019 (Source: Renewable Watch)
- Govt. of India is planning to shift 1/3rd of the automotive segment to electric vehicles by 2030. (source: Saur Energy Magazine)
- India surpassed Germany to rank 4th in Solar Power Installations across the world with China, USA and Japan leading the chart. (Source: Energy Digital)
- Installation cost of Solar based utility projects has gone down by 87% between 2010-2019. ( Source:ET Energy)
- Indian Water Reservoirs can generate Upto 280 GW of Solar Energy by utilizing a certain coverage of water area. (Source:Solar Daily)



# OUR BUSINESS VERTICES

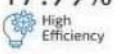


# SOLAR PANELS

## 36 Cut Cell

Type	:	Polycrystalline
Range	:	5 Watt to 125 Watt
Warranty	:	25 Year
Feature	:	 HIGH PERFORMANCE
Application	:	 Solar Home Applications    Solar Street Lights

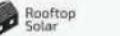
## 36 Full Cell

Type	:	Polycrystalline
Range	:	150 Watt to 175 Watt
Warranty	:	25 Year
Efficiency	:	17.99%
Feature	:	 High Efficiency
Application	:	 Solar Home Applications    Solar Street Lights

## 48 Cell

Type	:	Polycrystalline
Range	:	200 Watt to 220 Watt
Warranty	:	25 Year
Efficiency	:	17.53%
Feature	:	 Positive Tolerance
Application	:	 Home Solar System

## 60 Cell

Type	:	Polycrystalline
Range	:	250 Watt to 275 Watt
Warranty	:	25 Year
Efficiency	:	17.04%
Feature	:	 Reliable Quality
Application	:	 Home Solar System    Rooftop Solar

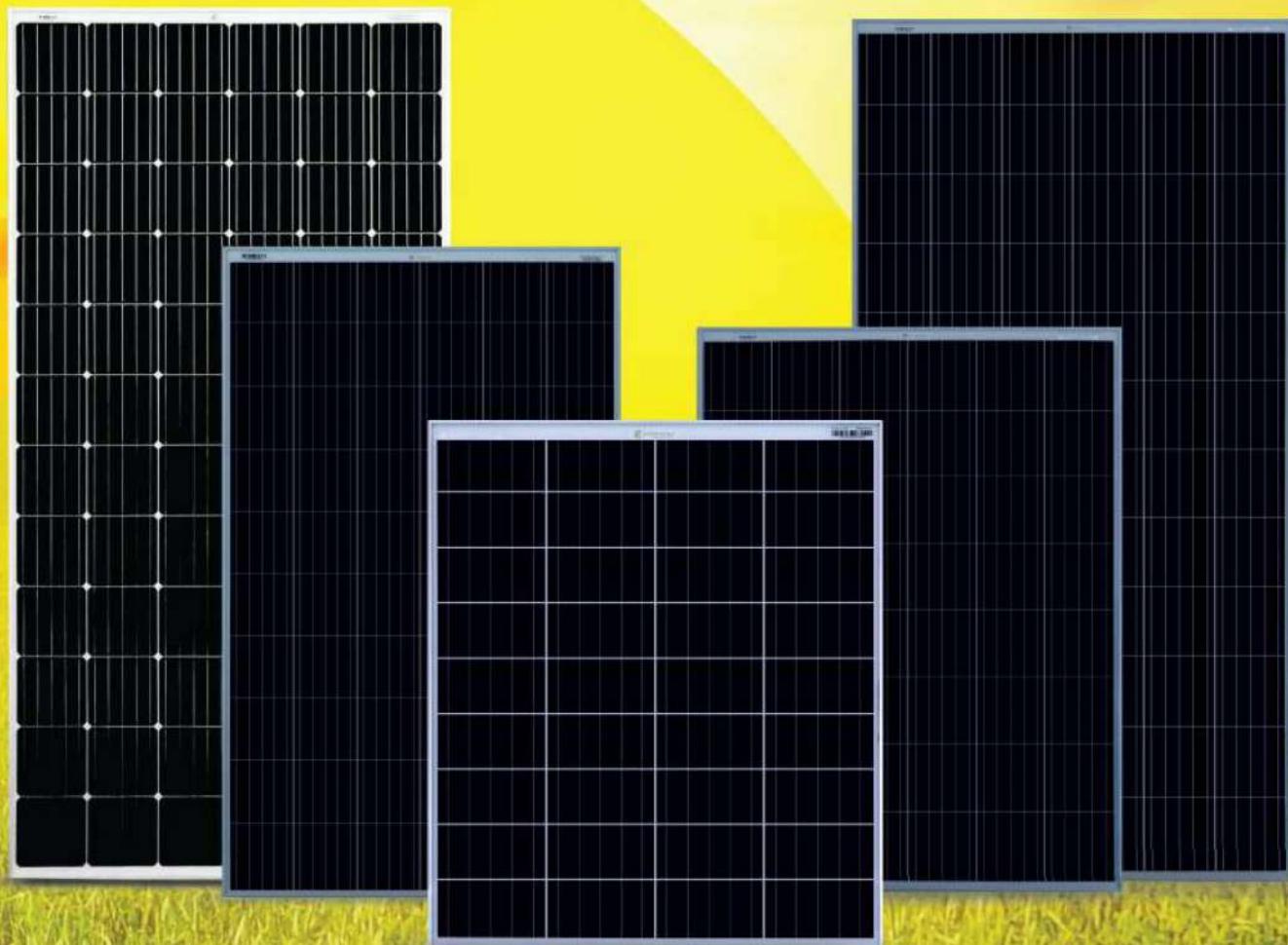
## 72 Cell

Type	:	Polycrystalline
Range	:	300 Watt to 335 Watt
Warranty	:	30 Year
Efficiency	:	17.08%
Feature	:	 LONG LIFE
Application	:	 Solar Pump    Solar Power Plant    Rooftop Solar

## 72 MONO

Type	:	Monocrystalline
Range	:	350 Watt to 380 Watt
Warranty	:	30 Year
Efficiency	:	20.10%
Feature	:	 High Efficiency
Application	:	 Solar Home Applications    Solar Street Lights

# HIGH PERFORMANCE SOLAR PV PANELS



## Certification



# ENERGY STORAGE SOLUTIONS



# BATTERIES

## PDB4000NT

Capacity	:	40Ah@C10   50Ah@C20
Warranty	:	36 Months
Container	:	N 100
Feature	:	 Low Maintenance
Application	:	 Solar Street Lights

## PDB15000TT

Capacity	:	150Ah @ C10   180Ah @ C20
Warranty	:	36 Months
Container	:	IT 500
Feature	:	 Superior Performance
Application	:	 Solar Power Plant    Home Applications    Industrial Solution

## PDB10000ST

Capacity	:	100Ah@C10   120Ah@C20
Warranty	:	36 Months
Container	:	N 200
Feature	:	 Longer Backup
Application	:	 Home    Office Power Backup Solutions

## PTB15000TT

Capacity	:	150Ah
Warranty	:	60 Months
Container	:	IT 500
Feature	:	 Superior Performance
Application	:	 Solar Power Plant    Home Applications    Industrial Solution

## PDB7500NT

Capacity	:	75Ah@C10   100Ah@C20
Warranty	:	36 Months
Container	:	N 130J
Feature	:	 Higher Reliability
Application	:	 Solar Street Lights

## PDB16000ITT

Capacity	:	140Ah@C10   160Ah@C20
Warranty	:	36 Months
Container	:	IT 500
Feature	:	 Superior Performance
Application	:	 Solar Power Plant    Home Applications    Industrial Solution

## PDB15000JT

Capacity	:	130Ah@C10   150Ah@C20
Warranty	:	24 Months
Container	:	N 200
Feature	:	 Longer Backup
Application	:	 Home    Office Power Backup Solutions

## PTB20000TT

Capacity	:	200Ah
Warranty	:	60 Months
Container	:	IT 500
Feature	:	 Long Durability
Application	:	 Solar Power Plant    Home Applications    Industrial Solution

# OFF-GRID INVERTERS

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## PRE-1000

Type	:	PWM
Panels Combination(wp)	:	165    *4
Capacity	:	850 VA
Warranty	:	2 Years
Feature	:	
Application	:	

## PRE-1500

Type	:	PWM
Panels Combination(wp)	:	165    *6
Capacity	:	1100 VA
Warranty	:	2 Years
Feature	:	
Application	:	

## PRE-2500

Type	:	PWM
Panels Combination(wp)	:	335    *6
Capacity	:	2000 VA
Warranty	:	2 Years
Feature	:	
Application	:	

## PRE-1200

Type	:	PWM
Panels Combination(wp)	:	165    *4
Capacity	:	1050 VA
Warranty	:	2 Years
Feature	:	
Application	:	

## PRE-1800

Type	:	PWM
Panels Combination(wp)	:	335    *4
Capacity	:	1500 VA
Warranty	:	2 Years
Feature	:	
Application	:	

## PRE-4000

Type	:	PWM
Panels Combination(wp)	:	335    *9
Capacity	:	3500 VA
Warranty	:	2 Years
Feature	:	
Application	:	

# WIDE RANGE OF OFF-GRID PWM SOLAR HOME INVERTERS



# WIDE RANGE OF MPPT/ GRID-TIE/ HYBRID PCU



# MPPT, ON-GRID & HYBRID INVERTERS

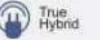
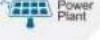
## 48 VOLT

Type	:	MPPT
Capacity	:	2 KVA TO 5 KVA
Warranty	:	2 Year & 5 Year*
Feature	:	30% Extra Utilization
Application	:	 Home Solar System

## 120 VOLT

Type	:	MPPT
Capacity	:	7.5 KVA to 10 KVA
Warranty	:	2 Year & 5 Year*
Feature	:	30 Days Storage
Application	:	 Solar Power Plant

## HYBRID

Range	:	2 KVA to 100 KVA
Warranty	:	5 Years
Feature	:	 True Hybrid
Application	:	 Solar Power Plant

## 96 VOLT

Type	:	MPPT
Capacity	:	4 KVA to 6 KVA
Warranty	:	2 Year & 5 Year*
Feature	:	30 Days Storage
Application	:	 Rooftop Solar

## GRID-TIE

Range	:	2 KVA to 80 KVA
Warranty	:	5 Years
Feature	:	 GPRS Monitoring
Application	:	 Solar Power Plant

# STREET LIGHTS

## DC - FULLY INTEGRATED

Type	:	DC
Range	:	9 Watt - 40 Watt
Warranty	:	2-5 Year*
Feature	:	
Combition	:	Lithium ion, LiFePO 4 Battery

## DC - SEMI INTEGRATED

Type	:	Stand Alone
Range	:	7 Watt - 24 Watt
Warranty	:	2-5 Year*
Feature	:	
Combition	:	Lithium ion, LiFePO 4 Battery

## DC - STAND ALONE

Type	:	Semi-Integrated
Range	:	7 Watt - 120 Watt
Warranty	:	2-5 Year*
Feature	:	
Combition	:	Lead Acid, Lithium ion or LiFePO 4 Battery

## AC - STAND ALONE

Type	:	Stand Alone
Range	:	40 Watt - 200 Watt
Warranty	:	2-5 Year*
Feature	:	
Combition	:	Lithium ion, LiFePO 4 Battery

## APPLICATIONS

- Commercial outdoor lighting location.
- Residential Streets.
- Park & Gardens.
- Parking Areas, Small Lanes.
- Street Lighting, Roadway Lighting, Pathway Lighting.

## FEATURES

- High System Efficiency.
- High Colour Rendering Index.
- Low Maintenance.
- Auto Dimming Features.
- Mercury Free & Environment Friendly.
- 2 Years Warranty.

# SOLAR STREET LIGHTS FOR BRIGHTER NIGHTS



MODEL		ES400W-5407	ES400W-5707
1	Battery Backup Type	13S NCM/NCA	16S LFP
2	Max. Charging Voltage	54 V Typ.	57 V Typ.
3	Max. Charging Current	7A+0.5A	7A+0.5A
4	Charge Profile	CC-CV with Charge termination Timer and current threshold	
5	Main Operating Range	150VAC +10V-280VAC +10V	
6	Main Operating Frequency	40Hz to 60Hz	
7	Efficiency	> 91% Typical	
8	Cooling System	Forced Air Cooled	

## WIDE RANGE OF CHARGERS



Parameters	Range
Charging Voltage	160VDC ± 2% Max
Adjustable Range	28V-160V ( 2-10nos 12V Batteries)
Charging Current	20A ± 5% Max
Adjustable Range	5A-20A
Charging Profile	Constant Current, Constant Voltage
Input Voltage	160-280V AC Single Phase.
Input Frequency	50Hz Nominal
Cooling	Forced Air Cooled
Indications	LCD DISPLAY along with indicators.
Isolation	Transformer based Input-Output Isolation
Protections	Electronically Reverse Battery protection, mains under voltage,



Parameter	Range				
Model	P5835	P-8425			
Battery Pack Type	15S-LFP or 13S-NCM	16S-LFP or 14S-NCM			
MAX. CHARGING VOLTAGE	58V Adj	84.0V Adj.			
MAX. CHARGING CURRENT	35A ± 1.0A	25A ± 1.0A			
CHARGE PROFILE	CC – CV – with Charge Termination Timer and current threshold.				
MAINS OPERATING RANGE	120VAC±10V -280VAC±10V				
MAINS OPERATING FREQUENCY	40 Hz TO 60 Hz				

Parameter	Range				
Model	P-5517LI	P-5816LI	P-6712LI	P-8212LI	P-8410LI
Battery Pack Type	15S-LFP or 13S-NCM	16S-LFP or 14S-NCM	16S-NCM	23S-LFP or 20S-NCM	20S-NCM
MAX. CHARGING VOLTAGE	54.5V Typ	58.0V Typ.	67.0V Typ	82.0V Typ	83.5V Typ
MAX. CHARGING CURRENT	17A ± 1.0A	16A ± 1.0A	12A ± 1.0A	12A ± 1.0A	10A ± 1.0A
CHARGE PROFILE	CC – CV – with Charge Termination Timer and current threshold.				
MAINS OPERATING RANGE	120VAC±10V -280VAC±10V				
MAINS OPERATING FREQUENCY	40 Hz TO 60 Hz				

<b>Model</b>	<b>P1248</b>
Type of Motor	BLDC Motor
Rated Voltage	10V to 16 Volt DC
RPM	325 to 340
Power Consumption	25 Watts
Warranty	2 years



<b>Model</b>	<b>P230/48RR</b>
Type of Motor	BLDC Motor
Rated Voltage	220v to 280 Volt AC/DC
RPM	360
Power Consumption	28Watts
Warranty	2 years

## WIDE RANGE OF FANS

<b>Model</b>	<b>P230/48IR</b>
Type of Motor	BLDC Motor
Rated Voltage	130v to 280 Volt AC/DC
RPM	360
Power Consumption	28Watts
Warranty	2 years



<b>Model</b>	<b>P1212R</b>
Type of Motor	BLDC Motor
Rated Voltage	12v
RPM	1450
Backup Time	7 Hours
Warranty	1 years

## EV CHARGING STATIONS



Type	AC/DC
Capacity	2 output connectors
Capacity	4KW - 30KW
Technology	RFID
Vehicle Capacity	Capable of charging 2 vehicles at a time
Design	IP54 - Designed for indoor or outdoor application

Product size	1780*730*1050
Tire specifications	3.0-10 front and rear
Vehicle quality	165
Empty vehicle quality	90
Motor	Brushless permanent magnet
Output power	1500W
Maximum speed:	60km/h
Endurance mileage	80Km
Warranty	2 years for the motor and 1 year for the controller circuit

## E=VEHICLE



Removes smoke, dust, pollen, formaldehyde

3 level fan speed

Can cover a room of 18.58 sq.m

3 Grade air quality display: Red -Worse, Green - Good, Blue - Excellent

RFID

4 filter stages

Anion generator which induces positive emotions

## E SCOOTER



Model	E-Cycle	E-Scooter	E-Scooter
Specification	36Volt/250Watt/12 Ah LiPo4 Battery	Low Speed Electric Scooter	High Speed Electric Scooter
Charging Time	Charing Time 4 Hours	Charing Time 4 Hours	Charing Time 4 Hours
Speed	25 km Per Hour	25 km Per Hour	60 km Per Hour
Range	25-35 KM	100 KM	100 KM
Warranty	1 Year	1 Year	1 Year

## HOME AIR PURIFIER



## GROUND MOUNTED

Installation cost of ground mounted utility scale of projects have gone down by 84% b/w 2010-2018



## ROOFTOP INSTALLATION

MNRE has set a target 40 GW rooftop installations in residential sector.



## APPLICATION OF SOLAR PANELS



### STREET LIGHTS

1.34 crore street lights to be replaced with LED by March 2020



### SOLAR WATER PUMP

Govt expands PM KUSUM scheme for 20 lakh solar pumps

### EV CHARGING STATIONS

Govt approves 2,636 EV charging stations in 62 cities under FAME II

# ROOFTOP SOLUTIONS

## RESIDENTIAL

- HOUSES
- SOCIETIES
- APARTMENTS



## INDUSTRIAL

- FACTORIES
- WAREHOUSES
- COLD STORAGES



## INSTITUTIONAL

- SCHOOLS
- COLLEGES
- UNIVERSITIES
- GURUKUL



## COMMERCIAL

- OFFICES
- AIRPORT
- RAILWAY STATION
- HOTELS
- HOSPITALS
- PETROL PUMP



# PROJECTS SO FAR...

**4 MW On Grid Tezpur,  
Assam**

Patanjali Ayurved Ltd.

**2 MW On Grid  
Haridwar**

Patanjali Ayurved Ltd.

**52.8 KW On Grid Jodhpur,  
Rajasthan**

Sun Plastic

**40 KW on Grid  
Chitaipur Varanasi**

Gyandeep School

**100 KW on Grid  
Tonk, Rajasthan**

Malpura Industrial

**35 KW on Grid Alwar,  
Rajasthan**

Grand Ashoka Hotel

**Around 25MW of Solar Power Plant Installations  
Complete Across India.**

## Our Contribution to Environment



**1 lakh  
Trees Saved**



**5 lakh  
Ltr. Diesel Saved**



**80  
Ton CO<sub>2</sub> Saved**





**PATANJALI**

Anant Urja Srot...

**Patanjali Renewable Energy Pvt. Ltd.**

**Corporate Office :** Aastha Bhawan, A-105, Sector 5, Noida,  
Uttar Pradesh-201301

**Factory :** D-83-84-85, EPIP, UPSIDC, SITE-V, Kasna,  
Greater Noida, UP 201310.

**Customer Care No. 1800-102-3220**

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