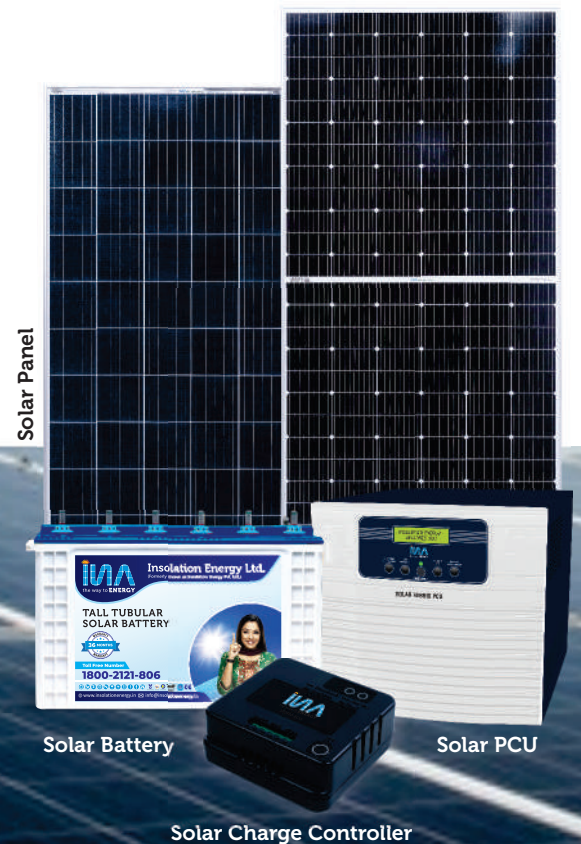




INSOLATION ENERGY LTD.

(Formerly Known as Insolation Energy Pvt. Ltd.)

START USING, THE FUEL FOR TOMORROW!



BIS



ALMM

WHY CHOOSE US?

- Founded by first generation entrepreneur Mr. Manish Gupta & Mr. Vikas Jain, who have an **experience of over two decades** in various sectors such as Steel, Industrial Pipe Line Accessories, Real Estate, Health & Fitness, and Captive & Independent Solar Power Producer.
- A sound track record of profitable and sustainable operations having a group **turnover of around Rs. 250 Cr.**
- The most modern **200 MW** Solar PV Module Manufacturing Unit.
- World class infrastructure with **"Fully Automated"** production technology.
- **Amongst Top 10** solar panel brands in India.

5+

Years of
Excellence

500+

Projects
Delivered

250+

MW*+ of
Solar Modules
Supply

10,000+

Happy
Customers



WE'RE EXPANDING!

Insolation Energy is expanding its capacity from 200 MW to 700 MW by installing another fully automatic solar PV module manufacturing line for high Efficiency M6, M10 & G12 Size Solar Panels at our new plant INSOLATION GREEN ENERGY PVT. LTD.



We manufacture the best utility scale solar panels and strive to provide the best solutions for sustainable solar products made in India. Our aim as a leading solar power company, is to provide clean and green electricity at an affordable price to one and all.

THE PRODUCTS WE OFFER!

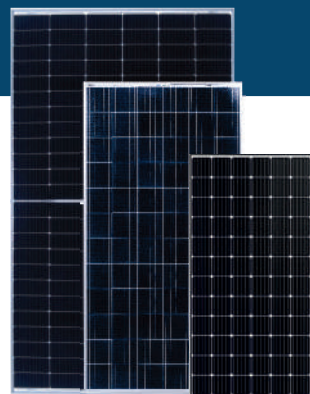
Solar power plants generate electricity from sunlight, which can be fed into the main electricity supply of a building or sold to the public electricity grid. The growing grid-connected solar sector across the globe is helping create jobs, enabling families and businesses to save money, and cut greenhouse emissions.

SOLAR PV MODULE

Range - 40 Wp to 545 Wp

Salient Feature

- Superior module efficiency as per international benchmarks.
- Positive power tolerance.
- 25 years linear performance warranty.
- PID free modules with long term reliability.
- Glass with anti reflective coating improves light transmission.
- Salt mist, ammonia, blowing sand and hail resistant passed.
- Excellent energy generation in weak light.
- Sustain heavy wind & snow loads (2400 pa & 5400 pa).
- Double stage EL tested pre & post lamination.
- IP 67/68 junction box with extended cable.



Insolation Energy is the largest Solar PV manufacturer in Rajasthan known for better generation modules manufacturing even in low light conditions. We produce a range of high efficiency solar PV modules including both Polycrystalline and Monocrystalline/Mono PERC from 40Wp -545Wp. Some of our innovative products include twin power, Dual glass (Glass to Glass), BIPV, Poly, Monofacial/Bifacial modules. Each solar PV module passes through stringent quality tests and meets the international as well as BIS standards. Our Made In India Solar PV Modules are BIS & ALMM approved and certified by UL, NISE, CE, BIS-IS: 14286 & meet all the standards of The Ministry of New & Renewable Energy.

STC : 1000W/m² irradiance, 25°C cell temperature, AM1.5G spectrum according to EN 60904-3
Average relative efficiency reduction of <5% at 200W/m² according to EN 60904-1

Technical Data

Electrical Data : All Data refers to STC (1000W/m², AM1.5G, 25°C)

Sapphire Series (Poly)

Type	INA72P 340	INA72P 335	INA72P 330	INA72P 335/12V	INA60P 270	INA36P 170	INA36P 100	INA36P 75	INA36P 60	INA36P 50	INA36P 40
Peak Power Pmax (Wp)	340	335	330	335	270	170	100	75	60	50	40
Maximum Voltage Vmpp (V)	38	38.30	38.00	19.15	31.60	18.6	18.30	18.10	18.00	17.80	17.4
Maximum Current Imp (A)	8.95	8.75	8.70	17.49	8.61	9.13	5.66	4.18	3.36	2.85	2.30
Open Circuit Voltage Voc (V)	47.4	46.50	46.30	23.50	38.20	22.70	22.20	22.00	21.90	21.80	21.4
Short Circuit Current Isc (A)	9.18	9.35	9.24	18.09	9.08	9.33	6.06	4.67	3.83	3.30	2.80
Module Efficiency (%)	17.04	17.35	17.07	17.35	16.65	16.80	15.50	14.55	14	14.10	14.00
Length x Width x Height (mm)	1995x1000x35	1970X990X35			1655X990X35	1495X670X35	905X665X34	705X665X34	645X665X34	505X665X34	415X665X34

Diamond Series [Mono PERC]

Ruby Series [Mono PERC]

Platinum Series [Mono PERC]

Type	INA72MP400	INA36MP200	INA32MP180	INA-144MHC-WF-545	INA-144MHC-WF-540	INA144MP460	INA144MP450	INA144MP440
Peak Power Pmax (Wp)	400	200	180	545	540	460	450	440
Maximum Voltage Vmpp (V)	41.2	20.60	18.31	42.02	41.81	41.70	41.60	41.50
Maximum Current Imp (A)	9.72	9.72	9.84	12.98	12.92	11.07	10.82	10.62
Open Circuit Voltage Voc (V)	49.79	24.90	22.12	50.14	49.81	49.20	49.00	48.80
Short Circuit Current Isc (A)	10.31	10.31	10.40	13.55	13.51	11.99	11.77	11.56
Module Efficiency (%)	20.17	19.70	19.70	21.12	20.92	20.7	20.5	19.8
Length x Width x Height (mm)	1995X1000X35	1495X680X35	1345X680X35	2279X1133x35		2115X1050x35		

*Ruby series are available in transparent backsheet on demand.

TALL TUBULAR SOLAR BATTERY

Range - 40, 100, 160, 180 Ah



INA Solar Batteries are C10 rated deep cycle batteries. Our innovative design, stringent quality standards, and extra thick tubular plates provides longer backup & battery life. Our solar batteries are specially designed as per solar application requirement. We offer Tall Tubular lead Acid Batteries which are the most reliable, successful and widely used across solar applications.

Model	INAS401236	INAS1001236	INAS1601236	INAS1801236
Battery type	Tubular Lead Acid	Tubular Lead Acid	Tubular Lead Acid	Tubular Lead Acid
Battery Rating	12V, 40Ah@C10	12V, 100Ah@C10	12V, 160Ah@C10	12V, 180Ah@C10
Warranty	36 Months	36 Months	36 Months	36 Months
Nominal Voltage	12	12	12	12
Standard to which Battery is made	IS 13369:1992	IS 13369:1992	IS 13369:1992	IS 13369:1992
Dimension (L x W x H) \pm 5mm	410 x 172 x 265	505 x 190 x 412	505 x 190 x 412	505 x 190 x 412
Net Dry Weight of battery (Kg)	11 Kg(\pm 3%)	28 Kg(\pm 3%)	30 Kg(\pm 3%)	32.50 Kg(\pm 3%)
Battery Container	Polypropylene	Polypropylene	Polypropylene	Polypropylene
Type of Postive Plate	Tubular	Tubular	Tubular	Tubular
Type of Negative Plate	Flate pasted	Flate pasted	Flate pasted	Flate pasted
Terminals	Lead Antimony alloy	Lead Antimony alloy	Lead Antimony alloy	Lead Antimony alloy
Material of seperator	PE	PE	PE	PE
Electrolyte	Sulphuric Acid	Sulphuric Acid	Sulphuric Acid	Sulphuric Acid
Net Charge battery weight	21 Kg(\pm 3%)	42Kg(\pm 3%)	53Kg(\pm 3%)	56 Kg(\pm 3%)
Net Gross Battery weight	22.5 Kg (\pm 3%)	44 Kg (\pm 3%)	55 Kg (\pm 3%)	58 Kg (\pm 3%)

SOLAR PCU Range - 440VA to 2500VA

Solar PCU is amongst the most critical components of any solar energy system. It is rightly said to be the brain of the solar energy system. Solar PCU is a Solar Power Conditioning Unit (PCU) which uses solar energy and also the power from the grid, to charge the batteries. It facilitates the conversion of direct current (DC) into alternating current (AC) to produce electricity for usage as well as for storage purpose.



	PWM SOLAR PCU	INA SUPS - 440P12	INA SUPS - 1150P12	INA SUPS - 2500P24
Input	Main wide ups mode voltage range	90 ~ 300 \pm 10 VAC	90 ~ 295 \pm 10 VAC	90 ~ 295 \pm 10 VAC
	Main ups mode voltage range	180 ~ 265 \pm 10 VAC	180 ~ 265 \pm 10 VAC	180 ~ 265 \pm 10 VAC
Output	Rated voltage (backup mode)	220 VAC \pm 10%	230 VAC \pm 10%	230 VAC \pm 10%
	Max input solar pv (v)	21 V	21 V	50V
	Max pv watt wp	150 Wp	800 Wp	1600 Wp
	Voltage (voc)	19~21 V	19~25 V	38 ~ 50
Solar	Voltage (vmp)	17 V	17-19 V	34 ~ 39
	Max pv charging current (a)	9A	50 A	50 A
	Capacity	40Ah - 100 Ah	40Ah-250Ah	100Ah-250Ah
Settable options	Battery charging current (mains mode) (a) (on/off switch any postion)	8 A (default) / 6 AMPS	20/15(DEFAULT)/10/5/0 AMPS	20/15(DEFAULT)/10/5/0 AMPS
	Ups/wups mode selection (on/off Switch any position)	WUPS(default) 90V TO 300V	WUPS(default) 90V TO 295V	WUPS(default) 90V TO 295V
	Priority selection (on/off switch any Position)	Grid(default)/Solar/User1/User2/ Normal	Grid(default)/Solar/User1/User2/Normal	Grid(default)/SOLAR/User1/User2/ Normal
	Battery type selection (on/off switch On position only)	Tubular(default)/LA/Li-ion	Tubular(default)/LA/Li-ion	Tubular(default)/LA/Li-ion
	Battery low setting per battery) (on/off switch off position only)	11/10.8 /10.5(based on load)	11/10.8/10.5(default) V	11/10.8/10.5(default)V

SOLAR CHARGE CONTROLLER

(122410-ECO)

Parameters	122410-ECO
System voltage	12/24V
PV Rating Max	300W (24V Battery)
Boost Voltage	14.1V±0.2V
Float Voltage	13.6V±0.2V
Low Voltage	10.0V±0.2V
Max Solar Input voltage	15-25V (12V Battery)
Max Solar Input voltage	30V-50V
Efficiency	≥97%
Charging Current	10Amp ± 0.5Amp
Absorption period	Up-to 30Min based on battery DOD



MAKING OUR MARK! PRESTIGIOUS ACHIEVEMENTS



Excellence In Solar Panel Manufacturing
By Radio City Business Titans Award,
Dubai - 2022



Leader In Renewable Energy In Rajasthan Award
By IIAA 2022



Leading MSME
Indian Module Manufacturer of the Year
by EQ 2022



YOUTH ICON - 2021
BY
FORTI



THE BEST EMPLOYER - 2021
BY
THE EMPLOYER'S ASSOCIATION OF RAJASTHAN



RAJASTHAN INDUSTRIAL ICON - 2021
BY
THE TIMES OF INDIA



INDIA SOLAR - 2021
BY
EQ



PV MODULE TECH - 2020
BY
EQ



STATE BUSINESS EXCELLENCE
AWARD - 2019



BEST SOLAR ROOFTOP MODULE MFG.
EXCELLENCE AWARD - 2019



RAJASTHAN STATE SOLAR
AWARD-2019



INDIA ROOFTOP SOLAR CONGRESS
AWARD - 2018



INDIA SOLAR WEEK EXCELLENCE
AWARDS - 2018



MISSION ENERGY
AWARD - 2017



RISING STAR
AWARD - 2017

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- Rural Electrification
- Green Telecom Tower
- Solar Street Hght
- Solar Home Lighting System (HLS)
- Solar Lantern
- Solar Traffic Signal
- Solar Electric Vehicle Charging Station Etc.



INSOLATION ENERGY LTD.

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Toll Free No. - 1800-2121-806

For Sales Enquiries Call - +91 7240 444 666

Head Office - G-25, City Center, S.C. Road, Jaipur - 302001 | Ph. +91-141-4019103, 4029103

**Factory - (A) 25K.M. Milestone, Jaipur-Delhi Bypass, Near Daulatpura Toll Tax, Village Bagwada, Jaipur. - 303805
(B) Khasra No. 11/1, Jatawali Industrial Area, Near Shyam Dhani Masala Factory, Tehsil Chomu, Dist. Jaipur - 303806 (Raj.)**

Delhi Office - 502 A, Arunachal Building, Barakhamba Road, Connaught Place, New Delhi - 01 | Ph. +91-11-43723333

Web. - www.insolationenergy.in | E-mail - info@insolationenergy.in | Follow Us :     