

CREATING ENERGY CURATING THE FUTURE

Welcome the sunshine, into your lives with
INSOLATION ENERGY LTD.
www.insolationenergy.in

OUR CREDENTIALS

SPEAK THE STANDARDS WE MAINTAIN!

Insolation Energy Ltd., now is the only Solar Panel Manufacturing Company of Rajasthan being listed at BSE SME Platform. Our commitment to quality and our firm belief in our potential has lead us towards a progessive future. Right from its inception, INA growth has never stopped and Within no time the brand has proven its potential by acquiring preferential dominance amongst the consumers. The following highlights validate the statement:

Amongst Top 10
Solar Panel Brands in India

700 MW Capacity
Solar Panel Manufacturing

End To End *Services*

EPC

Engineering,
Procurement &
Commissioning

Roof-top & Ground Mounted

Presence *In*

100+

Districts

Business *Network*

300 +

Distributors & Dealers

CONSUMER *Connect*

10,000 +

Happy Customers

SERVICE *Portfolio*

500 +

Projects Delivered

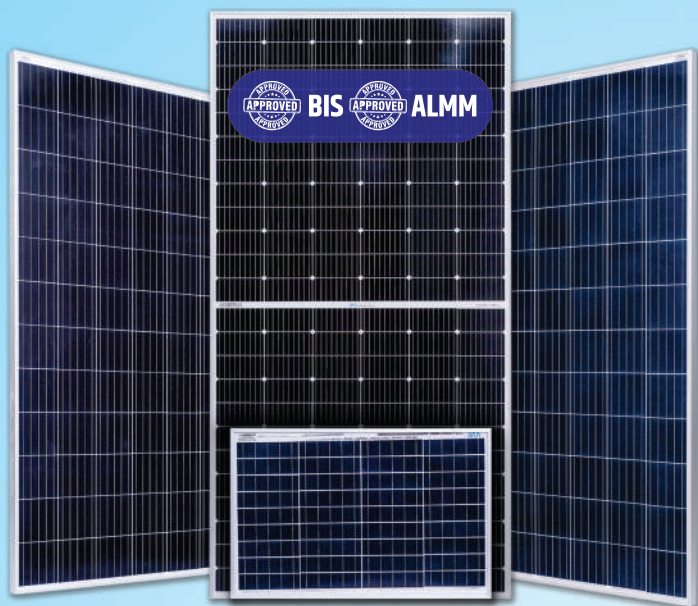
TRUST *& Certification*

**BIS
ALMM**

Best Quality & Standards



DIVERSE PRODUCTS TO MEET DIVERSE DEMANDS!



SOLAR PANELS

40Wp – 545Wp

Salient Features:

- 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 Ltd. is the largest Solar Panel 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 Panels 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	14.81	14.77	14.38
Length x Width x Height (mm)	1995x1000x35	1970X990X35			1655X990X35	1495X670X35	905X670X34	705X670X34	605X670X34	505X670X34	415X670X34

Diamond Series [Mono PERC]

Ruby Series [Mono PERC]

Type	INA72MP400	INA36MP200	INA32MP180	INA-144MHC- WF-540	INA-144MHC- WF-545
Peak Power Pmax (Wp)	400	200	180	540	545
Maximum Voltage Vmpp (V)	41.2	20.60	18.31	41.81	42.02
Maximum Current Imp (A)	9.72	9.72	9.84	12.92	12.98
Open Circuit Voltage Voc (V)	49.79	24.90	22.12	49.81	50.14
Short Circuit Current Isc (A)	10.31	10.31	10.40	13.51	13.55
Module Efficiency (%)	20.17	19.70	19.70	20.92	21.12
Length x Width x Height (mm)	1995X1000X35	1495X670X35	1345X670X35	2279X1133x35	

TALL TUBULAR SOLAR BATTERY

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 and 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) ± 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(± 3%)	28 Kg(± 3%)	30 Kg(±3%)	32.50 Kg(± 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(±3%)	42Kg(±3%)	53Kg(±3%)	56 Kg(±3%)
Net Gross Battery weight	22.5 Kg (±3%)	44 Kg (±3%)	55 Kg (±3%)	58 Kg (±3%)

SOLAR PCU 440 VA – 2500 VA

Solar PCU is amongst the most critical components of any 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 storage purpose.



	PWM SOLAR PCU	INA SUPS - 440P12	INA SUPS - 1150P12	INA SUPS - 2500P24
Input	Main wide ups mode voltage range	90 ~ 300 ± 10 VAC	90 ~ 295 ± 10 VAC	90 ~ 295 ± 10 VAC
	Main ups mode voltage range	180 ~ 265 ± 10 VAC	180 ~ 265 ± 10 VAC	180 ~ 265 ± 10 VAC
Output	Rated voltage (backup mode)	220 VAC ±10%	230 VAC ±10%	230 VAC ±10%
	Max input solar pv (v)	21 V	21 V	50V
	Max pv watt wp	150 Wp	800 Wp	1600 Wp
Solar	Voltage (voc)	19~21 V	19~25 V	38 ~ 50
	Voltage (vmp)	17 V	17-19 V	34 ~ 39
	Max pv charging current (a)	9A	50 A	50 A
Battery	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)	11/10.8 /10.5(based on load)	11/10.8/10.5(default) V	11/10.8/10.5(default)V
	(on/off switch off position only)			

SOLAR CHARGE CONTROLLER

122410 – ECO

Parameters	122410-ECO
System voltage	12/24V
PV Rating Max	300 W (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



EXCELLENCE IS A VIRTUE FOR TEAM INA SOLAR!

INA Solar has created a benchmark and established a goodwill that resonates with the essence of our solar industry. INA Solar has won over 40 international and national awards for its amazing contribution to the solar energy sector.



Excellence In Solar Panel Manufacturing By
Radio City Rajasthan Radiance Award - 2022



Best Employer
By Employers Association of Rajasthan - 2022



Distinguished Entrepreneur Award
In MSME Category By PHDCCI - 2022



The Fastest Growing Module Manufacturer
For the State of Rajasthan" Award
By EQ International - 2022



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



Leader In Renewable Energy In
Rajasthan Award By IIAA - 2022



YOUTH ICON BY FORTI
2021



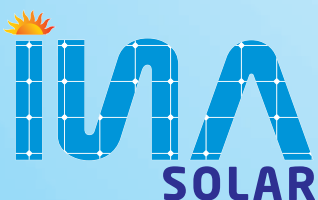
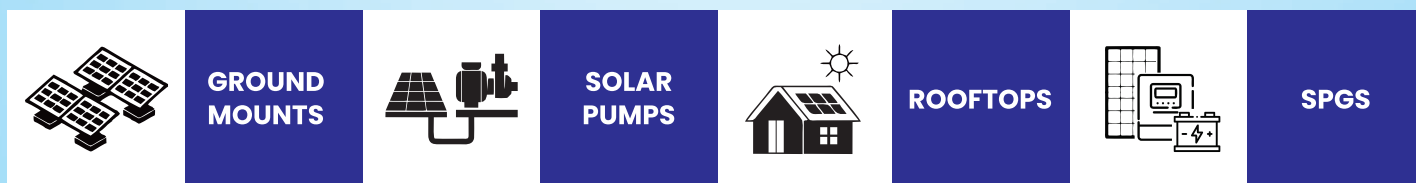
Rajasthan Industrial Icon
BY THE TIMES OF INDIA - 2021



MAJOR PROJECTS ACROSS INDIA



OUR OFFERINGS ACROSS SEGMENTS



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