

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 PRODUCTSTO MEET DIVERSE DEMANDS!



SOLAR 40Wp - 545Wp PANELS

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 PERCfrom 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, 25C 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, 25C°

Sapphire Series (Poly)											
Туре	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 Impp (A)	8.95	8.75	8.70	17.49	8.61	9.13	5.66	4.18	3.36	2.85	2.30
Open Circut 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	Ruby Series [Mono PERC]					
Туре	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 Impp (A)	Iaximum Current Impp (A) 9.72		9.84	12.92	12.98	
Open Circut Voltage Voc (V)	pen Circut Voltage Voc (V) 49.79		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	1495X680X35	1345X680X35	2279X1133x35		

*Ruby series are available in transparent backsheet on demand.



TALL TUBULAR SOLAR 40, 100, 160, 180 Ah BATTERY

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
Model				
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 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	
Input	Main ups mode voltage range	180 ~ 265 ± 10 VAC	180 ~ 265 ± 10 VAC	180 ~ 265 ± 10 VAC	
	Rated voltage (backup mode)	220 VAC ±10%	230 VAC ±10%	230 VAC ±10%	
Output	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	
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)	11/10.6 / 10.5 (based on load)	11/10.0/10.5(default) v		



SOLAR CHARGE 122410 - ECO CONTROLLER

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.



















MAJOR PROJECTS **ACROSS INDIA**



OUR OFFERINGS ACROSS SEGMENTS



GROUND **MOUNTS**



PUMPS



ROOFTOPS



SPGS



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