

BRING HOME
Happiness



SMART SOLAR
SOLUTION

www.ushasolarindia.com



About Us :

Usha Shriram Enterprises Pvt Ltd is a multi-product company. We have a range of products from Home & Institutional Lighting, all types of Furniture & Mattresses, Pressure Cookers & Cookware , Televisions & Accessories, Water & Air Purifiers , Mobiles and CCTV Camera among others. Our products are marketed under the brand Usha / Usha Shriram / Eurolex. Brand Usha Shriram is known for its quality and reliability and has built its reputation over decades through millions of satisfied customers. We have pan India after sales service network.

Company's products are also exported to countries in the Middle East and Africa our products are tested for all necessary Indian and International standards. Our motto is constant improvement and striving for the best to keep ahead of the competition.

The company was established in 1983. Its promoters were Dr. Charat Ram and Mr. N.R. Dongre. The company is now promoted by business professionals with vast experience in the field of manufacturing and marketing in India and abroad.

Company had introduced in year 2018. Its entire Product World of SOLAR including SPV Modules both Mono and Poly ,Solar Batteries , Solar PCU's Solar Street Lights , Solar Charge Controllers and so on. The company continues to follow the guiding principles of business viz developing innovative products based on consumer research and focusing on customer satisfaction and delight through highest standard of quality & service.

The company believes that its strength is the talented workforce who remains motivated to exceed customer expectations and create customer delight always. This is what has made USHA , USHA SHRIRAM & EUROLEX a force to reckon with in the industry and has also given the brands phenomenal goodwill.

Our business associates / distributors / dealer and suppliers are all partners in our progress & expansion.

Our Mission :

Empower team and associates to achieve and unleash their full potential to deliver outcomes in a sustainable way. Dare to take risks for the betterment of all. Care for environment , Community , Customers , Shareholders, People and creating a culture that will reinforce our values.



To be the globally admired leader in SOLAR ENERGY SECTOR with a deep commitment to Nation Building . Practicing Leadership with Passion & Care by pursuing best practices as young and passionate team.

Why Usha Shriram Solar?

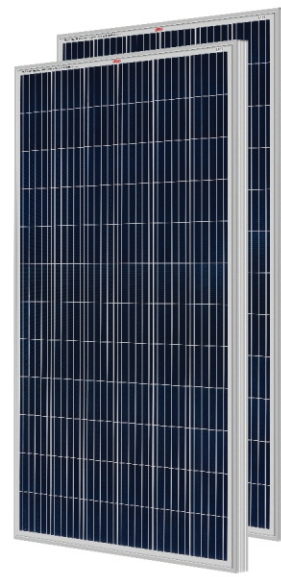
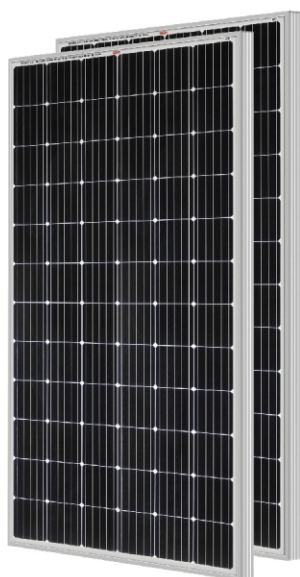
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Solar PV Module

Ranging From 10 Wp – 600 Wp

SOLAR PV MODULE										
Capacity (Wp)	55	80	110	170	210	275	345	335	415	450
Module (V)	12	12	12	12	12	24	24	24	24	24
No. of Cells	36	36	36	36	72	60	72	60	72	144
Cell Size	1/3	1/2	2/3	Full Cell	2/3	Full Cell	Full Cell	Full Cell	Full Cell	Half Cut
Cell Types	POLY Crystalline						MONO PERC/Bifacial			
Module WT	4.40	6.20	8.40	11.20	13.50	19.01	26.30	22.00	27.50	27.50
Glass Size (mm)	540*660	775*665	1475*660	1475*660	1385*976	1655*986	1970*986	1655*986	1985*1001	2100*1030
Diode Rating	6A	10A	10A	15A	20A	20A	20A	20A	20A	20A
Voc (V)	21.60	22.02	22.50	22.92	22.92	38.24	46.20	41.60	49.90	49.90
Isc (A)	3.10	4.45	6.30	9.30	12.00	9.30	9.35	10.30	10.30	11.46
Vmp (V)	18.2	18.03	18.4	18.8	18.7	30.8	37.5	33.8	40.5	40.8
Imp (A)	2.74	4.4	5.92	8.9	11.5	8.9	8.9	9.9	9.9	10.9
Pmax (W)	55	80	110	170	210	275	335	335	400	445
FF%	77	77	77	75	75	75	75	77	77	77
Tol.%	3	3	3	3	3	3	3	3	3	3
Max System Voltage	1000	1000	1000	1000	1000	1000	1500	1500	1500	1500



Poly Panel (12 V)
(10 Wp – 345 Wp)

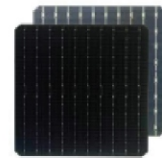
Bifacial Mono Perc Panel
(415 Wp – 550 Wp)

Poly Panel (24 V)
(275 Wp – 345 Wp)



MBB The Dhanush

Series – USM10BB 144 Half-Cut 'Crafted' Module



21.5%
Max Module
Efficiency

0~+5W
Power
Tolerance

< 2%
First Year
Power Degradation

0.55%
Year 2-25
Power Degradation

Half Cell
Lower Operating
Temperature

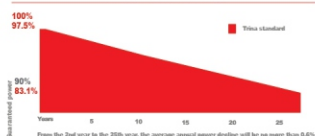
Electrical characteristics

STC : AM1.5 1000w/Sq.m 25 Deg Celcius

ModuleType	USM 445	USM 450	USM 540	USM 545	USM 550
Testing Condition	STC	STC	STC	STC	STC
Maximum Power (Pmax/W)	445	450	540	545	550
Voc-Open Circuit Voltage	49	49.20	49.50	49.65	49.80
Isc - Open Circuit	11.54	11.61	13.85	13.92	13.98
Vmp - Voltage at Max. Power	41.20	41.40	41.65	41.80	41.95
Imp - Current at Max. Power	10.81	10.87	12.97	13.04	13.12
Module Efficiency (%)	20.4	20.6	21.1	21.3	21.5

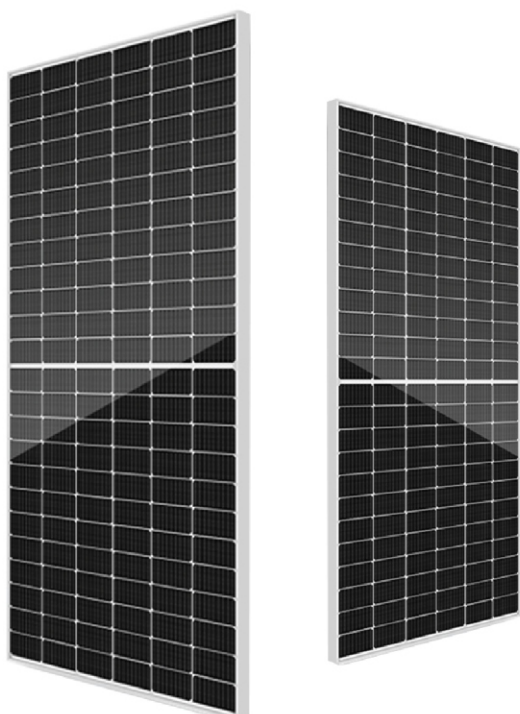
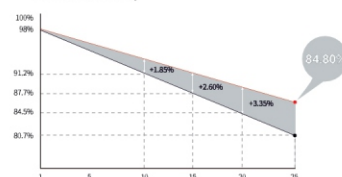
Performance Warranty

25 Year Power Warranty



LINEAR DEGRADATION

25-Year Power Warranty



High power mono perc



Multi Bus Bar Solar Cells



High reliability



High energy generation



Excellent performance on Sunny days



Balance of System (BOS) Saving

On Grid Solar Inverter

Ranging From 2 KW – 250 KW



Model No.	EURO-ON-3K-5K	EURO-ON-10K	EURO-ON-15K	EURO-ON-20K	EURO-ON-30K	EURO-ON-50K
Input (DC)						
Max. DC Power	3402W/5550W	13 KW	19.5 KW	26 KW	39 KW	67 KW
Max. DC Voltage	600 Vdc	1000 VDC				
MPPT Voltage Range	90-580 Vdc	470-800 VDC		480-800 VDC	480-850 VDC	540-850 VDC
Rated DC Voltage	360 Vdc	160-950 VDC		180-950 VDC	200-950 VDC	200-960 VDC
Related DC Voltage	90 Vdc	620 VDC				
Start Voltage	70 Vdc	200 VDC		250 VDC		
Min DC Voltage	12.5A/11A	160 VDC		160 VDC	200 VFC	250 VDC
Minimum DC Current	1/2	11A/11A	11A/22A	2*25A	3*23A	110A
Max Number Of DC Connection Set	1/2	1+1	1+2	2/2+2	2+2+2	3+3+2+2
Number Of MPPT	2			2	3	4
DC Switch	YES					
Output (AC)						
Rated Output Power	3000W/5000W	10 KW	15 KW	20 KW	30 KW	50 KW
Max. AC Power	3300W/5000W	11 KVA	16.5 KVA	22 KVA	33 KVA	55 KVA
Max. AC Current	14.3A/23.8A	16 A	23 A	33.5 A	48 A	76 A
Rated AC Voltage Range	220V,230V,240V	380V,400V/340-440V				
Grid Frequency	50Hz,47-53Hz					
Power Fector	±0.8(Adjustable)					
Hermonic Distortion Cureent	<3%					
Grid Connection Type	3W+N+PE					
Efficiency						
Max Efficiency	97.60%/97.80%	98.10%	98.20%	98.30%	98.80%	
Euro Efficiency	97.3%/97.30%	97.80%	97.80%	98%	98.40%	
MPPT Efficiency	99.50%					
Protection						
DC Over Current Protection	Integrated					
AC Short Circuit Current Protection	Integrated					
DC Reverse- Polarity Protection	Integrated					
Surge Protection			AC Class II	AC Class II	DC Class II, AC Class II	
DC Insulation Monitoring	Integrated					
Leakage Current Protection	Integrated					
Anti-Islanding Protection	AFD	Integrated				
Interface						
AC connection	Plug-in-Connection					
DC Connection	MC4/H4					
LCD/LED Display	LED+APP (Bluetooth)					
Language	English					
Communication	RS485 (STANDARD)/Wi-Fi & GPRS (Optional)					
Interface						
Topology	Transformersless					
Operating Temprature range (°C)	(-25°C-60°C)					
Cooling Method	Natural Convection					
Relative Humidity	0-100%, Non Condensing					
Noise	<30dBA					
Ingress Protection Class (IP)	IP65					
Warranty	5 (Standard)/10 Optional					
Certification	All IEC Certification As Per Indian Market					

SOLAR ENERGY



Marketing Alliance

Ankur Traders & Engineers Pvt. Ltd.

D-130, B.S. Road Industrial Area, Site-1, Ghaziabad - 201 009 (U.P.)

M : +91 7290039707, 7290039708

E : info@ushasolarindia.com

W : www.ushasolarindia.com

