





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 Shríram Solar?

Usha Shriram Solar 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 SHRIRAM & EUROLEX a force to reckon with in the industry and has also given the brands phenomenal goodwill.

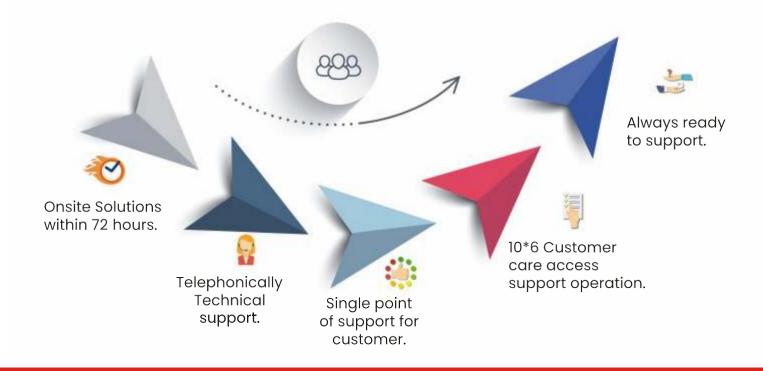




Our Products:



Our Services:





Solar PV Module

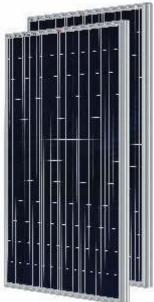
Ranging From 10 Wp - 600 Wp

		S	OL/	AR P	V	400	DUL	E		
Capacity (Wp)	55	80	110	170	210	275	335	345	415	450
Module (V)	12	12	12	12	12	24	24	24	24	24
No. of Cells	36	36	36	36	72	60	72	72	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/Bificial								Bificial	
									-	
Module WT	4.40	6.20	8.40	11.20	13.50	19.01	26.30	26.30	27.50	27.50
Glass Size (mm)	540*660	775*665	1475*660	1475*660	1385*97	1655*986	1970*986	1970*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	46.20	49.90	49.90
Isc (A)	3.10	4.45	6.30	9.30	12.00	9.30	9.55	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	345	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)





The **Dhanush**

144 Half-Cut 'Crafted' Module



21.5% Max Module Efficiency 0~+5W Power Tolerence <2%
First Year
Power Degradation

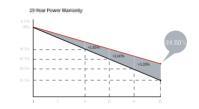
0.55% Year 2-25 Power Degradation Half Cell
Lower Operating
Temprature

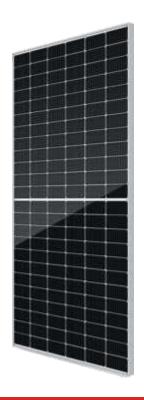
Electrical characteristics STC: AM1.5 1000w/Sq.m 25 Deg Celcius

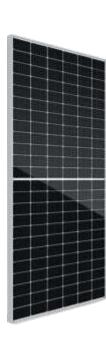
ModuleType	USM 445	USM 450	USM 540	USM 545	USM 550
Testing Condition	STC	STC	STC	STC	STC
Maximum Power (Pmax/W)	445	450	540	545	550
Voc-Open Circuit Voltage	49	49.20	49.50	49.65	49.80
Isc - Open Circuit	11.54	11.61	13.85	13.92	13.98
Vmp - Voltage at Max. Power	41.20	41.40	41.65	41.80	41.95
Imp - Current 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 100% 97.5% Tree steeded

LINEAR DEGRADATION









High power mono perc



Multi Bus Bar Solar Cells



High reliability



High energy generation

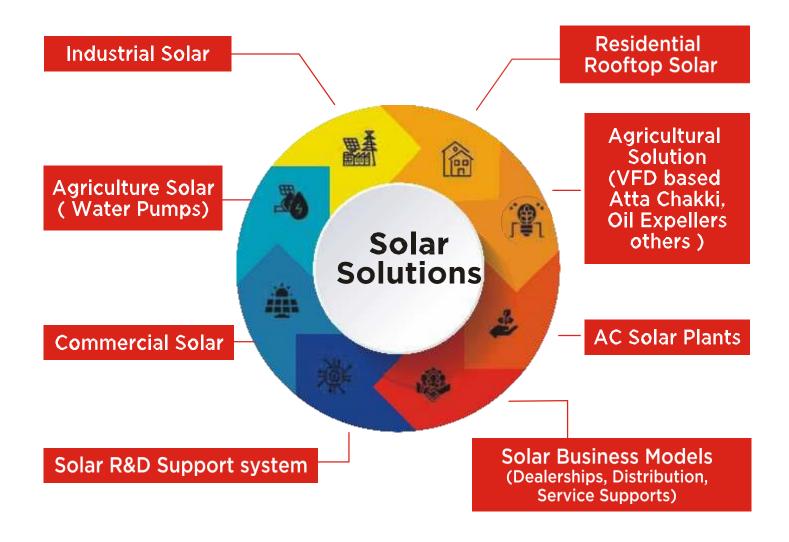


Excellent performance on Sunny days



Balance of System (BOS) Saving





USHA SHRIRAM ON GRID SOLAR POWER PLANT





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	160-95	0 VDC	180-950 VDC	200-950 VDC	200-960 VDC		
Related DC Voltage	90 Vdc			620 VDC				
Start Voltage	7 0 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			YE	ES .				
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		3	380V,400V/340-440V				
Grid Frequency			50Hz,4	7-53Hz				
Power Fector	±0.8(Adjustable)							
Hermonic Distortion Cureent	<3%							
Grid Connection Type			3W+I	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% 97.80% 98%		98	98.40%		
MPPT Efficiency			99.5	50%				
Protection								
DC Over Current Protection			Integ	rated				
AC Short Circuit Current Protection			Integ	rated				
DC Reverse- Polarity Protection			Integ	rated				
Surge Protection			AC Class II	AC Class II	DC Class	II, AC ClassII		
DC Insulation Monitoring			Integ	rated				
Leakage Current Protection		Integrated						
Anti-Islanding Protection	AFD		Integ	rated				
Interface								
AC connection			Plug-in-Co	onnection				
DC Connection	MC4/H4							
LCD/LED Display	LED+APP (Bluetooth)							
Language			Eng	lish				
Communication			RS485 (STANDARD)/W	ï-Fi & GPRS (Op⊠onal)				
Interface								
Topology			Transfor	mersless				
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 A	s Per Indian Market				



Hybrid Inverter

Model	SUN-3K- SG04LP1-24-EU	SUN-3K- SG04LP1-EU	SUN-3.6K- SG04LP1-EU	SUN-5K- SG04LP1-EU	SUN-6K- SG04LP1-EU
Battery Input Data					
			Lead-acid or Lithium-io	n	
Battery Voltage Range (V)	20~30		40~60		
Max. Charging Current (A)	140	70	90	120	135
	140	70	90	120	135
External Temperature Sensor					
Charging Strategy for Li-lon Battery			Self-adaption to BMS		
PV String Input Data					
Max. DC Input Power (W)	39	900	4680	6500	7800
Rated PV Input Voltage (V)			370		
Max. PV Input Voltage (V)			500		
Min. PV Input Voltage (V)			125		
			125		
			15 0- 425		
Full Load DC Voltage Range (V)			25 0- 425		
	1	3		13+13	
	1	7		17+17	
Number of MPPT / Strings per MPPT	1,	/1		2/1+1	
AC Output Data					
Rated AC Output and UPS Power (W)	30	000	3600	5000	6000
	33	100	3960	5500	6600
		2	times of rated power, 1	0 S	
AC Output Rated Current (A)	13.6	5/13	16.4/15.7	22.7/21.7	21.3/26.1
Max. AC Current (A)	15/	14.3	18/17.2	25/23.9	3 0 /28.7
Max. Continuous AC Passthrough (A)			35		40
Power Factor			0.8 leading to 0.8 laggir	ng	
Current Harmonic Distortion					
Efficiency					
,			97.6 0 %		
			96.50%		
			99.90%		
PV Input Lightning Protection					
Anti-islanding Protection					
PV String Input Reverse Polarity Protection					
Insulation Resistor Detection					
Residual Current Monitoring Unit					
Output Over Current Protection					
Output Shorted Protection					
Output Over Voltage Protection			DCT II / ACT II		
			DC Type II / AC Type II		
Grid Connection Standard	ENICOE 40 1 V/C	DE0106 JEC61707 V	DEN4105, G99, CEI0-21,	NIDCOO7 NIDD161407	I6150 DD1600
Safety EMC / Standard	EN3U349-1, VL)EU120, IEC01727, V	IEC62109-1/-2	INKSU97, INDK 10149/	1013U, KD1099
General Data			1EC02109-1/-2		
General Bata					
Communication with BMS			RS485; CAN		
Communication with bivio			14		
			365.5W×470.5H×261D)	
Protection Degree			1P65	,	
Installation Style			Wall-mounted		
Warranty	5 years				
wananty			2 years		



Hybrid Inverter

Model	SUN-6K-SG04LP3 -EU/AU	SUN-8K-SG04LP3 -EU/AU	SUN-10K-SG04LP3 -EU/AU	SUN-12K-SG04LP3 -EU/AU					
Battery Input Data	20//10	20/110							
		Lead-acid	or Li-lon						
Battery Voltage Range (V)		40~	60						
Max. Charging Current (A)	150	190	210	240					
	150	190	210	240					
External Temperature Sensor									
Charging Strategy for Li-Ion Battery	Self-adaption to BMS								
PV String Input Data		10400							
Max. DC Input Power (W)	7800	13000)~800)	15600						
Start-up Voltage (V)	200-650 160								
PV Input Current (A)	13+13	13+13	26+13	26+13					
Max. PV ISC (A)	17+17	17+17	34+17	34+17					
No.of MPPT Trackers	1/ T 1/	1/ 〒1/	JT 17	JT11/					
No.of Strings Per MPPT Tracker	1+1	1+1	2+1	2+1					
AC Output Data	ITI	ITI	ZT'	ZTI					
Rated AC Output and UPS Power (W)	6000	8000	10000	12000					
nated he output and or 51 ower (w)	6600	8800	11000	13200					
	0000	2 times of rated		13200					
AC Output Rated Current (A)		12	15	18					
Max. AC Current (A)	13.5	18	23	27					
Max. Continuous AC Passthrough (A)	15.5	50		21					
Current Harmonic Distortion Efficiency		THD<3% (Linea	ar load<1.5%)						
	97.6 9 % 97. 09 %								
		99.90							
Protection									
PV Input Lightning Protection									
Anti-islanding Protection									
PV String Input Reverse Polarity Protection									
Insulation Resistor Detection									
Residual Current Monitoring Unit									
Output Over Current Protection									
Output Shorted Protection									
Output Over Voltage Protection									
Surge protection	DC Type II / AC Type II								
Certifications and Standards									
Grid Regulation Safety EMC / Standard	IEC61727, IEC62116, IEC60068, IEC61683, NRS 097-2-1 IEC62109-1/-2, IEC61000-6-1, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12								
General Data	1202.07	,	.,						
Communication with BMS		RS485;	CAN						
Communication with DIVID		34.	5						
		422W×658							
Protection Degree		IP6							
Installation Style		Wall-mo							
Warranty		5 yea	ars						

SOLAR ENERGY





PV. Mfg. & Marketed by : Ankur Traders & Engineers Pvt. Ltd.

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