



Harnessing the Solar Power with innovative and smart future products at the affordable price range and quick returns on Investments.

LIVSOL is the leading organization in the field of renewable energy attached with some leading companies in the power sector of India and Abroad, Is proud to be among the list of 100% renewable companies with its focus On "Designing, Engineering, Supplying, Testing and Commissioning any kind of Solar Photovoltaic plants, equipments and systems that cater to both Domestic and Industrial needs".

Strong vision coupled with professional and ethical business practices have helped us to achieve good position in the global markets.

KEY FEATURES

- Extra Long life
- Extra Energy/Power
- Extremely Compact Size
- Made of A Grade Solar Cells with up to 23% cells efficiency
- One of the most compact efficient 156.75x156.75 to 158.75x158.75mm 60/72 cells module
- Module stability and reliability due to high-quality raw materials
- Positive Power Tolerance
- Snow and wind load tested
- ARC glass with UV-T & UV-C encapsulant ensure higher module efficiency
- Reliable schottky bypass diode minimizes power drop by shed
- All weather-resistance junctions box and crosslink cable
- PID resistance cells & encapsulants yield efficient performance under hot humid weather
- **TUV:IEC61215, IEC61730 certified from 3W-550 W**

TECHNICAL SPECIFICATION

Electrical Characteristics	LS- 40 WP	LS - 50 WP	LS- 60 WP	LS- 75 WP	LS - 110 WP	LS- 125 WP	LS- 165WP	LS- 200 WP	LS- 270 WP
Peak Power (WP)	40	50	60	75	110	125	165	200	270
Open Circuit Voltage (VOC) (V)	22.32						22.68	37.24	38.46
Short Circuit Current (ISC) (A)	2.41	3.06	3.54	4.59	6.22	7.45	8.95	7.46	9.1
Voltage at Maximum Power (Vmp) (V)	18	18	18	18	18	18	18.3	29.62	31.52
Current at Maximum Power (Imp) (A)	2.24	2.82	3.35	4.21	5.75	6.95	8.75	7.12	8.54
Maximum System Voltage (V)	600 (VDC)								

Physical Parameters									
Solar Cell type	Poly								
Solar cell Per Module (Units)	36								
Arrangement of Cells (L*B) (nos)	9 Cell x 4 Strings								
Weight (Kg)	3.7	4.32	4.9	6.58	8.3	9.7	11.1	11.1	11.1
Hole to Hole Dimension (mm) (CTC)	X = 645 Y = 235	X = 645 Y = 285	X = 645 y = 330	X = 645 y = 415	X = 628 Y = 540	X = 628 Y = 647	X = 628 Y = 740	X = 945 Y = 740	x = 955 y = 825
Module Size LxWx H (mm)	665x427x35	665x597x35	778x665x35	778x665x35	1010x665x35	1255x665x35	1485x665x35		1649x990x35
Module Efficiency	≥14.32	≥14.2	≥15.3	≥14.7	≥15.01	≥15.01	≥16.28	≥16.24	≥16.78
Measurement Tolerance on Power +/- 3%.All electrical parameter specified at :STC:25.C cell temperature;1000W/m2 Irradiance									

Other Characteristics	All Dimension in mm tolerances ±2MM	
Type of Cell	Poly Crystalline Silicon	
Front Face	Tempered (Low Iron), 3.2 mm, ARC Coated	
Cell Encapsulate	Ethylene Vinyl Acetate (PID)	
Frame	≥17μ Anodize thickness aluminum frame with twin wall profile	
Junction Box	IP 65/67,3 Terminal, 2 Diodes	
Temp. Coefficients of Pmax (%/°C)	-0.45	
Temp. Coefficients of Voc (%/°C)	-0.35	
Temp. Coefficients of ISC (%/°C)	0.05	



Electrical Characteristics	LS - 335 WP	LSM - 335 WP	LSM - 400 WP	LSM - 410 WP	LSM - 430 WP	LSM - 450 WP	LSM - 550 WP
Peak Power (WP)	335	335	400	410	430	450	550
Open Circuit Volatage (VOC) (V)	45.79	40.33	49.35	49.42	49.22	50.10	49.88
Short Circuit Current (ISC) (A)	9.01	10.14	10.3	10.44	11.21	11.48	14.11
Voltage at Maximum Power (Vmp) (A)	38.25	34.81	42.46	42.9	40.59	41.39	42.05
Current at Maximum Power (Imp) (A)	8.59	9.62	9.72	9.84	10.6	10.88	13.08
Module Size LxWxH (mm)	1960x990x40 mm	1660X1000x35 mm	1985x1000x35 mm		2015X1003X35 mm		2278X1134X35 mm
Module Efficiency	17.50	20.10	20.18	20.20	20.25	20.47	20.99
Solar Cell Per Module (Units)	72	60	72	72	144	144	144
Solar Cell type	POLY	MONO					
Maximum System Voltage (V)	1500 (VDC)						
Arrangement of Cells (L*B) (nos)	12*6	10*6	12*6	10*6	24*6	24*6	24*6
Weight (Kg)	22.0	17.9	22.0				29.5
Glass	3.2mm, High Transmission, AR Coated Heat Strengthened glass						
Junction Box	IP68, 4 Terminal with 3 bypass Diodes (25A)						
Tolerance of Electrical Parameters:	3% positive tolerance						
Warranty	25 Years* Linear Performance Warranty						

Temperature Coefficients		Performance Guaranteed Power Output of 90% for 10 Years & 80% for 25
Coefficient of Current α (% °C)	0.05 ± 0.02	
Coefficient of Voltage β (% °C)	0.35 ± 0.01	
Coefficient of Power λ (% °C)	0.44 ± 0.02	
Maximum System Voltage (V)	1500 (VDC)	
Temperature Range	40 °C to + 85°C	
Efficiency Reduction at 200W/m ² , 25°C	<5%	
Standard Test Condition (STC)	Irradiance 1000W/m ² , Temperature 25°C, AM 1.5	
Mechanical Specification:		
Cable & Connectors	4mm ² , TUV Certified, 1000 mm(Optional)	
Application Class	CLASS A (Safety Class)	
Front Cover	High Transmission, Low Iron, Tempered Glass, ARC Coated	
Cell Encapsulate	Ethylene Vinyl Acetate (PID)	
Back Cover	Composite film	
Frame	≥ 17μ Anodize thickness Aluminum frame with twin wall	

