



550Wp MONO PERC 182,10BB

SSSPL-144TP-500 | 510 | 520 | 530 | 540 | 550
Maximum Module Efficiency -21.31%



Durability Against Extreme Environmental Conditions

Severe salt mist & blown sand resistance for seaside, farm and desert.
Anti-reflective & Anti-soiling surface minimize power loss from dirt and dust



PID Resistance

Excellent Anti-PID performance guarantee limited power degradation for Mass production (Potential Induced Degradation) under test conditions



Positive tolerance

Guaranteed tolerance +5W
Reliable power output



High Efficiency

Higher module conversion efficiency (up to 21.31%) benefit from half cell structure (low resistance characteristic)



Low-light Performance

Advanced glass and cell surface textured design ensure, Excellent performance in low-light environment.



Severe Weather Resilience

Excellent Snow load 5400Pa resistance
Excellent Wind load 2400Pa resistance

Best Choice for PM Surya Ghar Yojana & PM KUSUM (Solar Subsidy Projects)

Certifications:



IS 14288:2010/IEC 61215:2005
IS/IEC 61730 (Part 1) : 2004
IS/IEC 61730 (Part 2) : 2004



R-63000922

- Sri Savitr Solar established in 2011, is Hi-tech corporation with its core business in R&D manufacturing, and sale of high efficiency silicon based solar modules.
- As one of the leading PV enterprises in the world, SSSPL has delivered more than 600MW Solar Photo Voltaic Modules to Residential, Commercial, utility and off-grid projects all around the world.
- Through strict selection of raw materials, stringent quality control and rigorous test in state of the art facilities in Hyderabad and TELANGANA, INDIA.
- SSSPL has always committed to higher efficiency, more stable and better cost performance products.

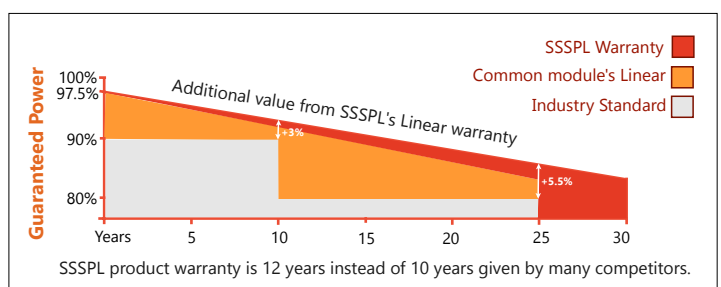
LINEAR PERFORMANCE WARRANTY



12 years Product Warranty



30 years Linear Power Warranty



SRI SAVITR SOLAR PVT LTD

Plot No.34/1 Survey.No.374,C.LE.Phase:2, Gandhinagar, Quthbulapur, Rangareddy, Hyderabad-500037,Telangana. India

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Electrical characteristics at Standard Test Conditions (STC)

MODEL	SSSPL-144TP-500	SSSPL-144TP-510	SSSPL-144TP-520	SSSPL-144TP-530	SSSPL-144TP-540	SSSPL-144TP-550
Maximum Power Pmax	500	510	520	530	540	550
Open Circuit Voltage - Voc (V)	49.46	49.48	49.50	49.52	49.53	49.60
Short Circuit Current-Isc (A)	12.48	12.70	12.94	13.18	13.43	13.65
Voltage at Maximum Power-Vmp (V)	43.36	43.38	43.40	43.43	43.45	43.52
Current at Maximum Power-Imp (A)	11.54	11.76	11.99	12.21	12.43	12.64
Module Efficiency %	19.38	19.76	20.15	20.54	20.93	21.31

*Standard Test Conditions (STC) radiance 1000W/m cell temperature 25°C, AM1.5G. The mentioned Power output is measured and determined by SSSPL at its sole and absolute discretion

Electrical Characteristics at Nominal Module Operating Temperature (NMOT)

MODEL	SSSPL-144TP-500	SSSPL-144TP-510	SSSPL-144TP-520	SSSPL-144TP-530	SSSPL-144TP-540	SSSPL-144TP-550
Maximum Power Pmax	372.12	379.56	387.00	394.44	401.88	409.33
Open Circuit Voltage - Voc (V)	45.99	46.01	46.02	46.03	46.06	46.12
Short Circuit Current-Isc (A)	10.20	10.38	10.57	10.77	10.97	11.15
Voltage at Maximum Power-Vmp (V)	39.66	39.69	39.69	39.72	39.74	39.80
Current at Maximum Power-Imp (A)	9.39	9.58	9.76	9.94	10.12	10.29

*Nominal Operating Module temperature (NOCT) irradiance 800W/m²; Wind speed 1 mis, Ambient temperature 20°C

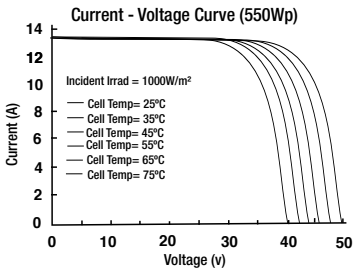
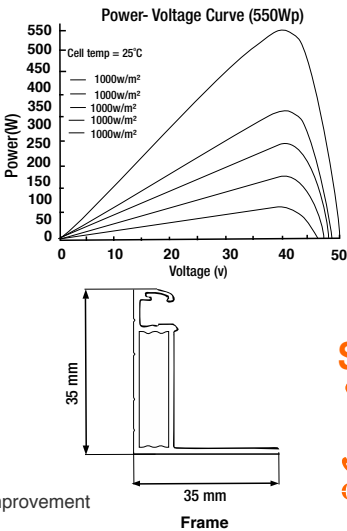
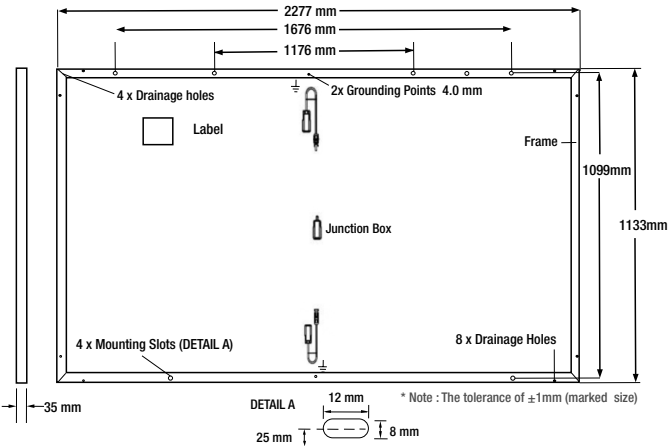
Temperature Characteristics		Maximum Ratings	
Voltage Temperature Coefficient β	-0.2730%/C	Maximum system voltage (VDC)	1500VDC
Current Temperature Coefficient α	+0.0437%/C	Series fuse rating (A)	25 A
Power Temperature Coefficient γ	-0.3348 %/C	Reverse Current overload (A)	40 A

Mechanical characteristics	
Dimensions (mm)	2277 X1133 X 35 mm
Weight (Kgs)	27.60 Kgs
Front Glass	High Transmittance, Low Iron toughened Glass-3.2mm Thickness
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Back Sheet	Composite Film Tedlar White Back sheet (Optional Transparent Back sheet/Black Back sheet)
Number of Cells	MONO PERC Solar Cells 10-BUSBAR, 91X 182 mm, 144 Cells, (6X12 Matrix-2 nos)
Junction Box	IP68, 3 By Pass Diodes, IEC 60529 and Safety Class II
Cable & Connector	2 X 4mm², Compatible with MC4, Positive (+) 400mm/ Negative (-)400mm
Frame	Silver Mat Anodized aluminum, Alloy Type 6063 15

System Design	PACKING CONFIGURATION
Temperature Range	Pieces per Pallet
Wind/Snowload Capacity	Container 40' HC
Application Class	Packaging box dimensions (LXHXW)
Safety Class	

Note: Please refer User manual before handling, Installing and operating SSSPL Solar Modules.

PHYSICAL CHARACTERISTICS



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MADE IN INDIA