



SS-M-3W to 30W



Quality Product

All Manufactured modules are tested 100% by EL (Electroluminescence) during the Production Process & Free from micro cracks.

Our high-performance modules are highly efficient, reliable and provide optimal output.

The company manufactures solar modules in compliance with global standard including IEC 61215, 61730-1, 61730-2, 61701, UL 1703, UL 61730, ISO 9001:2008 & ISO 14001:2004 & 18001:2007.

High Efficiency .

High Module efficiency is obtaining top performance even in diffused light conditions.

We are leaders in providing our customers with maximum sunlight conversion.

Application Possibilities

Residential and Commercial rooftops, Car ports, Solar Farming, Balconies, Awnings, Street lights, Fences, and Canopies.

Our Team

We have a team of qualified experts and engineers making sure that modules produce maximum power.

We pride ourselves in caring for each individual customer needs with detailed attention. Our end goal is to give a highly efficient product with exceptional customer service.

Guarantee

Our product is durable and has 5 years performance warranty. Integrated manufacturing of cells & modules in production line guarantees optimum performance.

US OFFICE:

Sonali Energies USA LLC
111 Charlotte Place Suite 101A
Englewood Cliffs, NJ 07632
Office Tel: 201-568-1424





SS-M-3W to 30W

Electric Performance Parameter

Model	3W (6v)	5W (6v)	5W (12v)	8W (12v)	10W (12v)	12W (12v)	15W (12v)	18W (12v)	20W (12v)	25W (12v)	30W (12v)
Nominal Maximum Power (Pmax/W)	3	5	5	8	10	12	15	18	20	25	30
Optimum Operating Voltage (Vmp/V)	8.82	8.82	17.64	17.64	17.64	17.64	17.64	17.64	17.64	17.64	17.64
Optimum Operating Current (Imp/A)	0.34	0.57	0.28	0.46	0.57	0.68	0.85	1.02	1.13	1.42	1.7
Open Circuit Voltage (Voc/V)	10.8	10.8	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
Short Circuit Current (Isc/A)	0.37	0.61	0.31	0.48	0.61	0.73	0.92	1.09	1.2	1.53	1.82

* Measurement Power Tolerance on Power 0 / +%

* Normal Operating cell Temperature (NOCT) of irradiance of 800W/m², 45± 2° C

* Under Standard Test Conditions (STC) of irradiance of 1000W/m²

* Spectrum AM 1.5 and cell temperature c

* Maximum System Voltage: 1000v IEC/UL

Mechanical Parameter

Module Dimensions (mm)	Length	245	365	365	300	365	450	540	450	450	450	540
	Width	135	135	135	245	245	245	245	365	365	450	450
	Height	17	17	17	17	17	17	17	17	17	17	17
Weight	kg	0.4	0.7	0.7	1	1.25	1.4	1.74	2.05	2.19	2.63	3.25
Cells Arrangement (Monocrystalline)	nos.	18 (9x2)	18 (9x2)	36 (18x2)	36 (9x4)	36 (9x4)	36 (9x4)	36 (9x4)	36 (9x4)	36 (9x4)	36 (18x2)	36 (18x2)
Font Cover (Tempered Glass)	mm	3.2										
Encapsulate	EVA											
Back Cover	White Composit Backsheet											
Junction Box	IP 65 (2 Terminal)											
Aluminium Frame	Silver Anodized Aluminum Alloy											
Mounting Hole Pitch (Y)	mm	122.5	182.5	182.5	150	182.5	225	270	182.5	182.5	225	270
Mounting Hole Pitch (X)	mm	110	110	110	220	220	220	220	425	425	425	425

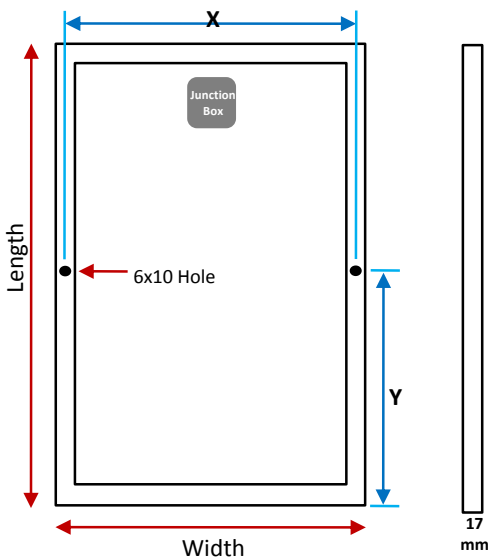
Temperature Coefficient

Coefficient of Current	+0.06% /°C
Coefficient of Voltage	-0.35% /°C
Coefficient of Power	-0.45% /°C

Tested Operating Conditions

Temperature Cycling Range	-40° C to 85° C
Humidity Freeze, Damp Heat	85% RH

Module Drawing



Product Warranty

Product Warranty	5 Years
Linear Performance Warranty	5 Years

IV Curve

