



30 - 160Watt
36 Cell Module
Poly Crystalline Solar PV Modules

RSPL PV Modules are manufactured with the highest A grade materials and features best in class quality and performance. Our Meticulous product design and stringent process control ensures our modules deliver an exceptional high PV yield and stand the test of time.



High Power Density

High conversion efficiency and more power output per square meter

Excellent Module Efficiency
Upto 16.33%



Durability

Certified for Salt Mist Corrosion and PID Resistance

Product Warranty
5+5* Years



Advanced Glass

High-transmission glass that directs more light on the solar cells

Positive Power Tolerance
Upto 5W*

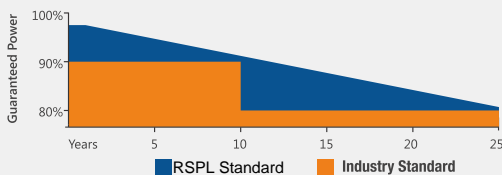


Premium Quality

Built to the most stringent quality standards in the industry.

PID Resistant

25 Year Linear Warranty



PID RESISTANT



LINEAR DEGRADATION



OUTPUT EL-TESTED



MINIMAL HOT-SPOT



CONTROLLED GOOD FLOW



HIGHER WEAK LIGHT PERFORMANCE



HIGH YIELD & +VE TOLERANCE



TIER 1 SUPPLIERS



CE
RoHS
COMPLIANT

Qualifications & Certificates

IEC 61215, IEC 61730 - 1 & 2, IEC 62804,
IEC 61701, ISO 50001, ISO 18001
ISO 9001, ISO 14001, BIS Registered

ELECTRICAL PERFORMANCE

Electrical Parameters at Standard Test Conditions (STC)

Module Type	RSPL12 Pxxx (xxx=Pmax)									
Maximum Power P _{max} (Wp)	30	37	40	50	60	75	100	125	150	160
Maximum Voltage V _{mpp} (V)	18.57	18.57	18.57	18.57	18.57	18.57	18.68	18.68	18.68	18.97
Maximum Current I _{mp} (A)	1.61	2.03	2.18	2.70	3.23	4.06	5.38	6.69	8.07	8.43
Open-Circuit Voltage V _{oc} (V)	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.60
Short-Circuit Current I _{sc} (A)	1.77	2.23	2.39	2.97	3.55	4.46	5.92	7.09	8.66	8.94
Module Efficiency (%)	10.20	12.58	13.60	13.51	14.41	14.45	14.69	15.76	15.33	16.33

STC: 1000W/m² irradiance, 25°C module temperature, AM1.5G spectrum according to EN 60904-3.
Average relative efficiency reduction of < 5.0% for every 200W/m² reduction in Irradiances according to EN 60904-1.

Electrical Parameters at Nominal Operating Cell Temperature (NOCT)

Maximum Power P _{max} (Wp)	21.60	26.64	28.8	36	43.2	54	72	90	108	115.2
Maximum Voltage V _{mpp} (V)	16.77	16.40	16.51	16.67	16.72	16.63	16.73	16.82	16.73	17.08
Maximum Current I _{mp} (A)	1.29	1.62	1.74	2.16	2.58	3.25	4.30	5.35	6.46	6.74
Open-Circuit Voltage V _{oc} (V)	20.70	20.70	20.70	20.70	20.70	20.70	20.70	20.70	20.70	20.79
Short-Circuit Current I _{sc} (A)	1.42	1.79	1.91	2.38	2.84	3.57	4.74	5.67	6.93	7.15
NOCT (°C)	46+/-2									

NOCT: Open-circuit module operation temperature at 800W/m² irradiance, 20°C ambient temperature, 1m/s wind speed.

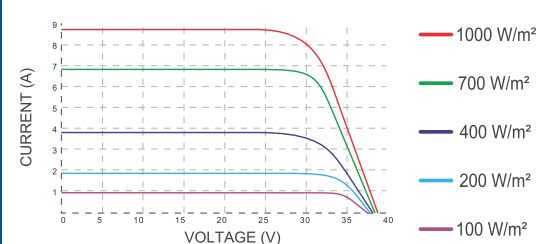
MECHANICAL DATA

Dimensions (L / W) (in mm)	425 X 665	425 X 665	425 X 665	506 X 661	706 X 661	775 X 665	1010 X 661	1281 X 661	1481 X 661	1481 X 661
Weight (Kg)	4.0	4.0	4.0	5.4	5.8	6.4	8.0	9.0	11.0	11.0
Mounting Holes Pitch X-mm	430	430	430	632	632	628	632	632	632	632
Mounting Holes Pitch Y-mm	397	397	397	186	205	205	125,510	128,586	600,1000	600,1000
Cell Type	Poly Crystalline									
Cell Arrangement	36 (9 X 4)									
Superstrate (Glass)	3.2 mm -High Transmission Low-Iron Tempered Glass									
Frame Material	34,35mm Silver Anodised Alluminum Frame (Black Optional)**									
Cell Encapsulant	EVA (Ethylene Vinyl Acetate) - FC/UFC									
Back Sheet	Composite Film - White (Black and Transparent Optional)**									
Junction Box	IP 65/67									
Cable	Optional									
Connectors	Optional									

OPERATING CONDITIONS

Maximum System Voltage	1000 Vdc
Maximum Series Fuse Rating	15.0 A
Limiting Reverse Current Rating	15.0 A
Operating Temperature Range (°C)	-40°C to 85°C
Maximum Static Load, Front	5400 Pa
Maximum Static Load, Back (e.g., wind)	2400Pa
Max. Hailstone Impact (diameter / velocity)	25mm / 23m/s

I-V Curve (for different Irradiances)



NOTE

- Due to constant product modifications RSPL reserves the right to amend the above specifications without prior notice. The Electrical data given here is for reference purpose only
 - For handling installation instructions, refer RSPL Installation Manual. Please read RSPL warranty documents thoroughly
 - Please confirm your exact requirements with sales representative while placing your order. All dimensions have standard variation of 5 mm. Please confirm dimensions before placing order
- ** Black and Transparent back sheet and black frame module without IEC certification. 2.8 mm glass also available

Outer Dimensions can have a variance of 5mm