



310 - 345 Watt  
72 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



### Durability

Certified for Salt Mist Corrosion and PID Resistance



### Advanced Glass

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



### Premium Quality

Built to the most stringent quality standards in the industry.

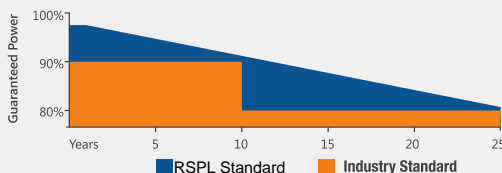
Excellent Module Efficiency  
**Upto 17.75%**

Product Warranty  
**5+5\* Years**

Positive Power Tolerance  
**Upto 5W\***

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 TOLREANCE



TIER 1  
SUPPLIERS



### 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	RSPL 24 P xxx (xxx=Pmax)							
Maximum Power P <sub>max</sub> (Wp)	310	315	320	325	330	335	340	345
Maximum Voltage V <sub>mpp</sub> (V)	36.30	36.50	36.70	36.9	37.10	37.00	37.40	37.60
Maximum Current I <sub>mpp</sub> (A)	8.54	8.63	8.72	8.81	8.90	9.01	9.10	9.18
Open-Circuit Voltage V <sub>oc</sub> (V)	45.60	45.80	46.00	46.20	46.40	46.60	47.00	47.29
Short-Circuit Current I <sub>sc</sub> (A)	9.04	9.13	9.23	9.32	9.41	9.50	9.59	9.68
Module Efficiency (%)	15.97	16.23	16.49	16.74	16.98	17.24	17.50	17.75

**STC:** 1000W/m<sup>2</sup> irradiance, 25°C module temperature, AM1.5g spectrum according to EN 60904-3. Average relative efficiency reduction of 3.0% at 200W/m<sup>2</sup> according to EN 60904-1.

### Electrical Parameters at Nominal Operating Cell Temperature (NOCT)

Maximum Power P <sub>max</sub> (Wp)	226.10	229.80	233.40	237.10	240.73	244.38	247.86	251.51
Maximum Voltage V <sub>mpp</sub> (V)	33.02	33.20	33.38	33.56	33.74	33.92	34.05	34.25
Maximum Current I <sub>mpp</sub> (A)	6.85	6.92	6.99	7.06	7.13	7.20	7.28	7.34
Open-Circuit Voltage V <sub>oc</sub> (V)	41.95	42.14	42.32	42.50	42.65	42.80	43.24	43.51
Short-Circuit Current I <sub>sc</sub> (A)	7.31	7.38	7.46	7.53	7.58	7.63	8.06	8.13

**NOCT:** open-circuit module operation temperature at 800W/m<sup>2</sup> irradiance, 20°C ambient temperature, 1m/s wind speed.

## THERMAL CHARACTERISTICS

Nominal Operating Cell Temperature	NOCT	°C	46+/-2
Temperature Coefficient of P <sub>max</sub>	γ	%/°C	-0.42
Temperature Coefficient of V <sub>oc</sub>	β	%/°C	-0.34
Temperature Coefficient of I <sub>sc</sub>	α	%/°C	0.05

## OPERATING CONDITIONS

Maximum System Voltage	1000V <sub>dc</sub>
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

## MECHANICAL DATA

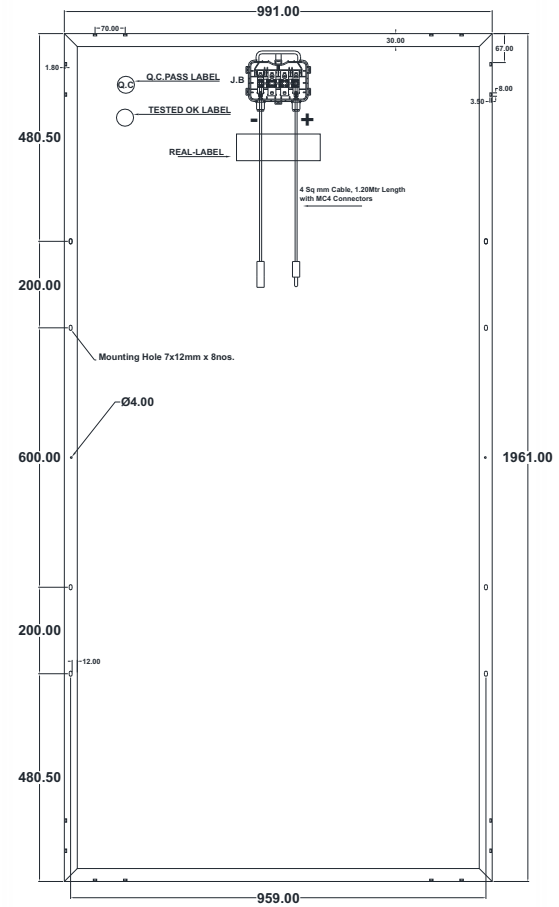
Cell Type	Poly Crystalline (or Poly PERC ) 156.75mm x 156.75mm or as applicable
Cell Arrangement	72 (6 X 12)
Dimensions (L / W / H)	1961mm / 991mm / 35 or 40 mm
Weight	22.5Kg
Superstrate ( Glass )	3.2 mm -High Transmission Low-Iron Tempered Glass (AR Coated)**
Frame Material	Silver Anodized Aluminum Frame With Twin Wall Profile ( Black Optional)**
Cell Encapsulant	EVA (Ethylene Vinyl Acetate) - FC/UFC
Back Sheet	Composite Film - White (Black and Transparent Optional)**
Junction Box	IP 67 rated
Cable	1000 or 1200 mm / 4mm <sup>2</sup>
Connectors	2 Nos. Black MC4 Compatible Connectors
By- Pass Diodes	3 Pcs

### NOTE

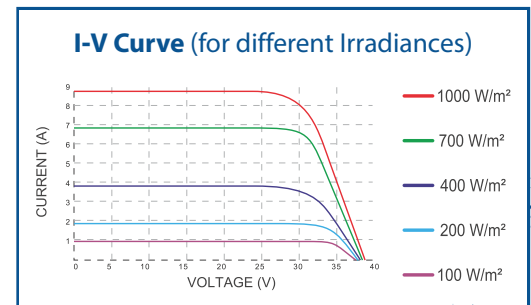
- Due to constant product modifications RSPL reserves the right to amend the above specifications without prior notice. The Electrical data given here is for reference purpose only
  - For handling installation instructions, refer RSPL Installation Manual. Please read RSPL warranty documents thoroughly
  - 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

## PACKAGING SPECIFICATIONS

Number of Modules Per Pallet	25 Nos
Pallet dimensions (L / W / H)	1995mm/1145mm/950mm
Weight Per Pallet	600Kg



Tolerance: ± 5 mm  
All Dimensions are in mm



Outer Dimensions can have a variance of 5mm