



Solar Modules MONO 305W - 315W

SPARKLE

PRODUCT | KEY FEATURES

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AR Coated Tempered Glass
Anti-Reflective Module Surface
- 

Excellent Module Efficiency
- 

Positive Power Tolerance
Up to 5W
- 

Pre and Post EL Checking
to ensure defect free modules
- 

Ip68 Junction Box
for Long Term Endurance
- 

Ensure safety parameters
through Safety test
- 

Quality and Reliability assurance
in standard weather condition

THE INDUSTRY'S BENCHMARK

Rayzon Green Energies is an internationally renowned leading solar energy cost effective befitting solutions provider having core competency in high efficiency PV module manufacturing and providing wide range EPC solutions. PV modules are the best in class in terms of power output and long-term reliability.

PRODUCT CERTIFICATES



MADE IN INDIA

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Industry leading linear power
output warranty*
- 

Product warranty on
materials and workmanship

TECHNICAL DATA

PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC) (irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.)

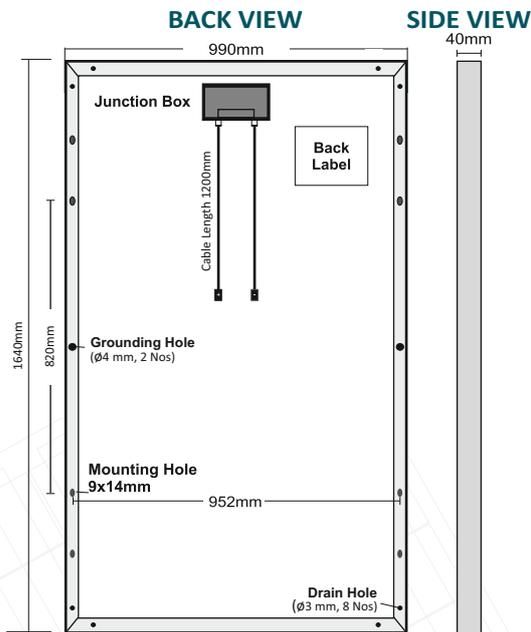
Nominal Maximum Power (Pmax)	305W	310W	315W
Optimum Operating Voltage (Vmp)	32.98	33.24	33.36
Optimum Operating Current (Imp)	9.10	9.33	9.46
Open Circuit Voltage (Voc)	39.07	39.42	39.72
Short Circuit Current (Isc)	9.63	9.68	10.03
Module Eff(%)	18.79	19.09	19.40

PERFORMANCE UNDER NOCT (NOCT irradiances of 800 W/m², ambient temperature of 20°C, Wind speed 1m/sec)

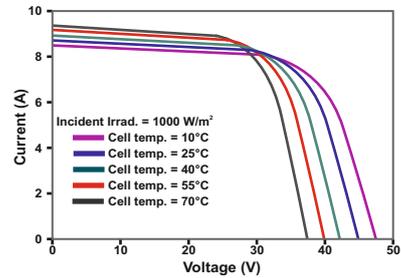
Nominal Maximum Power (Pmax)	221.40	225.03	228.66
Optimum Operating Voltage (Vmp)	30.09	30.32	30.43
Optimum Operating Current (Imp)	7.24	7.42	7.52
Open Circuit Voltage (Voc)	36.06	36.38	36.66
Short Circuit Current (Isc)	7.72	7.76	8.05

Mechanical Specifications

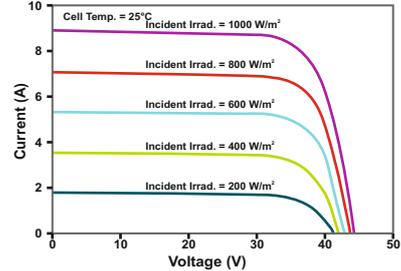
Dimensions (L x W x T in mm)	1640 x 990 x 40
Weight(kg)	19.2
No Of Cell	60 [10x6]
Aluminum Frame [40HS]	Silver Anodized Aluminum Alloy
Front Cover (Tempered Glass)	3.2mm
Encapsulate	(EVA) Ethylene Vinyl Acetate Sheet
Back Sheet	Composite Film
Junction Box with 3-Bypass diode	4 terminal Junction Box (IP68)
Application Class Rating	Class A
Safety Class Rating	Class II
Mechanical Load Test (as per IEC & UL)	5400 Pa-Front; 2400 Pa-Back
Mounting Holes Pitch (Y)-mm	820
Mounting Holes Pitch (X)-mm	952



IV Curve Variation with Temperature



IV Curve Variation with Irradiation



*All dimensions are in mm with +/-1% tolerance.

MAXIMUM OPERATING CONDITIONS

Operating Temperature:	-40°C to +85°C
Maximum System Voltage:	1000V
Maximum Series Fuse Rating:	20A

TEMPERATURE COEFFICIENTS

Current Temperature Coefficients $\alpha(Isc)$:	0.021%/°C
Voltage Temperature Coefficients $\beta(Voc)$:	-0.291%/°C
Power Temperature Coefficients $\gamma(Pmax)$:	-0.397%/°C

Caution: Please read safety and installation instructions before using the product. ***Warranty:** Linear power warranty for 27 years up to 2.5% for 1st year degradation and 0.67% from year 2 to year 27. Please read Rayzon warranty documents thoroughly. **Disclaimer:** specifications included in the datasheet are subject to change without prior notice owing to conditions innovation on the product Development and R&D Activities. RAYZON GREEN ENERGIES reserves the right to make any adjustment to the information described here, Dataset contained in this specification do not form a representative of a single module data. @T&C Apply.