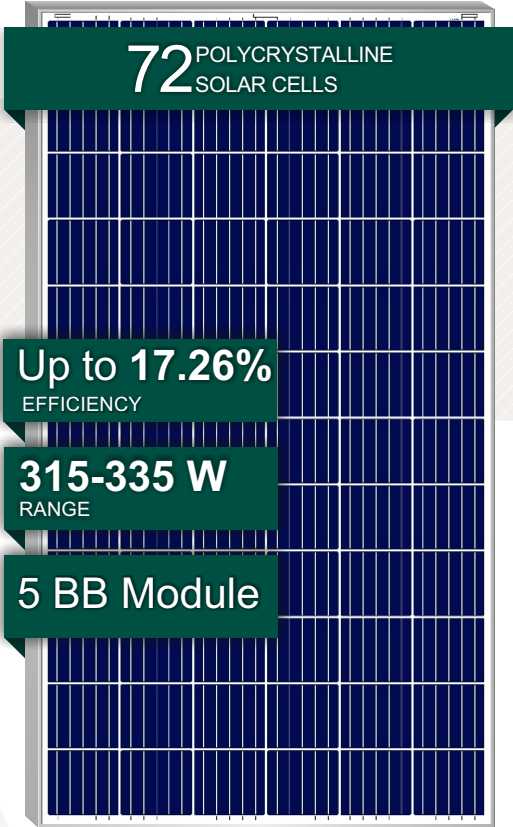


COSMIC PV POWER | POLYCRYSTALLINE SOLAR PV MODULES | 72 CELLS | 315-335 WATT










MODULE DATASHEET

Cosmic PV Power photovoltaic (PV) modules set the industry benchmark for reliable energy production, optimized design and environmental performance. Cosmic Modules are designed for High area efficiency suitable for roof-top and ground mounted applications.

- High Reliability**
Using tempered glass as back sheet, which brings higher reliability and better anti-corrosiveness to the module in weak-light conditions
- Best in Class reliability**
Cosmic Modules are able to withstand wind load 2400pa and snow load 5400Pa
- Higher Generation**
Excellent temperature coefficient giving higher yields in the long term
- DCR Content**
module is available

PRODUCT | KEY FEATURES

-  Glass with anti-reflective coating To maximize sunlight potential
-  Superior Module Efficiency
-  Positive Power tolerance up to 2% Extra.
-  Pre and Post EL Checking to ensure defect free modules
-  IP68 Junction Box for Long Term Weather Endurance
-  Ensure safety parameters through Safety test
-  Best in-class Reliability & Durability

APPLICATIONS

- ◆ On-Grid large scale utility systems
- ◆ On-Grid Rooftop residential, commercial and industrial rooftop installations
- ◆ Off-Grid Residential systems

Product Certifications



For handling & installation instructions refer Cosmic PV Power Installation Manual available on company website. • Before placing order confirm your requirement with our sales representative. • The electrical data given here is for reference purpose only. • Dispose-off the product as E-Waste after end of its working life. ** Refer to Cosmic PV Power warranty document for terms and conditions. • Due to constant product modifications, Cosmic PV Power reserves the right to amend the above specifications without prior notice.

ELECTRICAL DATA STC

Module Type	COSPO 315	COSPO 320	COSPO 325	COSPO 330	COSPO 335
Maximum Voltage V_{mpp} (V)	35.90	36.11	36.18	36.30	36.38
Maximum Current I_{mpp} (A)	8.78	8.87	8.99	9.10	9.21
Open Circuit Voltage V_{oc} (V)	45.84	45.98	46.12	46.26	46.41
Short Circuit Current I_{sc} (A)	9.54	9.61	9.65	9.65	9.71
Module Efficiency η (%)	16.23	16.49	16.75	17.01	17.26

Under Standard Test Conditions (STC) of irradiance 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C. Except Pmax, all other parameters have a tolerance of ±3%.

ELECTRICAL DATA NOCT

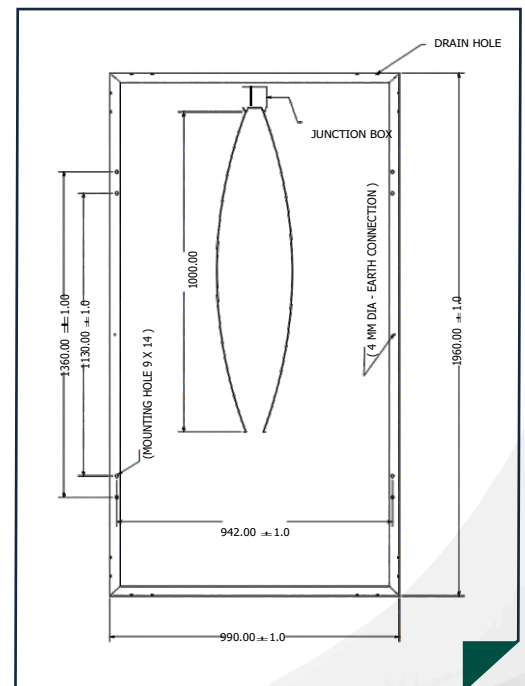
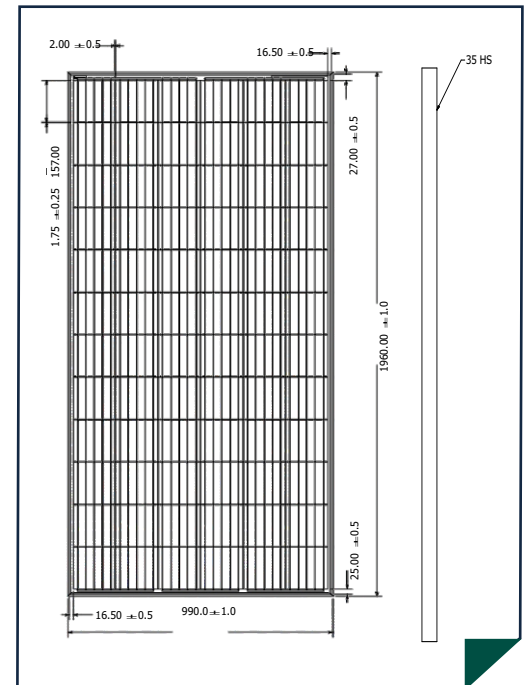
Power (W)	233.2	237.2	240.6	244.7	248.2
V@P _{max} (V)	34.6	34.8	34.9	35.0	35.1
I@P _{max} (A)	6.74	6.82	6.90	6.99	7.06
V _{oc} (V)	42.4	42.6	42.8	42.9	43.1
I _{sc} (A)	7.22	7.31	7.39	7.47	7.56

THERMAL CHARACTERISTICS

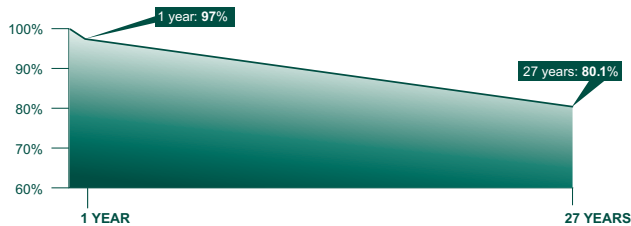
Temperature coefficient of Current (Isc), α (%/°C)	0.051
Temperature coefficient of Voltage (Voc), β (%/°C)	-0.2775
Temperature coefficient of Power (Pm), γ (%/°C)	-0.3859
NOCT (°C)	46 + 2
Operating temperature range (°C)	-40 to 85

MECHANICAL CHARACTERISTICS

Length x Width x Thickness (L x W x T)	1960 mm (L) x 990 mm (W) x 35 mm (T)
Weight	22.5 kgs
Solar Cells per Module (Units) / Arrangement	72 / (12x6)
Solar Cell Type & Size	Poly crystalline Silicon, 157 x 157 mm
Front Glass	Low Iron and Tempered glass with ARC coating
Encapsulate	PID Free & UV Resistant
Junction Box (Protection degree / Material)	IP68 / Weatherproof PPO
Connector (Protection degree / Type)	IP68 rated / MC4 compatible
Cable Cross - Section & Length	4 ² mm & 1000mm
Frame	Anodized Aluminium Alloy
Series Fuse Rating	20 A
Surface load	(snow load 5400 Pa, wind load 2400 Pa)

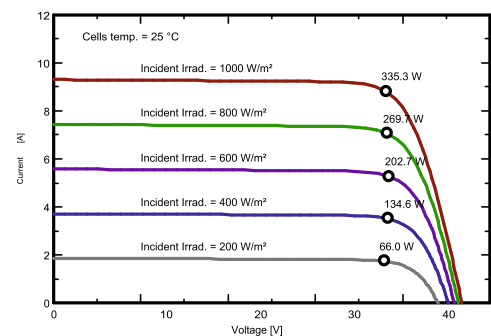


Cosmic PV Performance Warranty



10 Years Product Warranty - 27* Years Linear Power Warranty

I-V Curve Variation With Irradiation (335W)



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

COSMIC PV POWER PRIVATE LIMITED

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www.cosmicpvpower.com

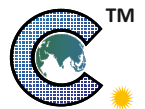
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Solar For A Better Future