

“India’s Strongest Solar Pv Module”



MONOSOLAR
(158.75 X 158.75 MM)
(CELL - 5BB) PV MODULES

72 CELLS

360-400W_p POWER OUTPUT RANGE

MODULE TECHNOLOGY

FULL CELL
WITH EXCELLENT QUALITY



High Efficiency



Better Performance



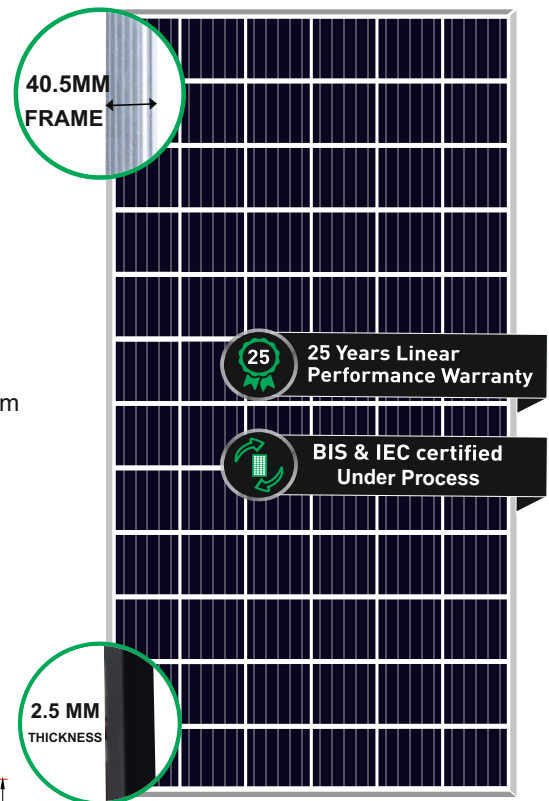
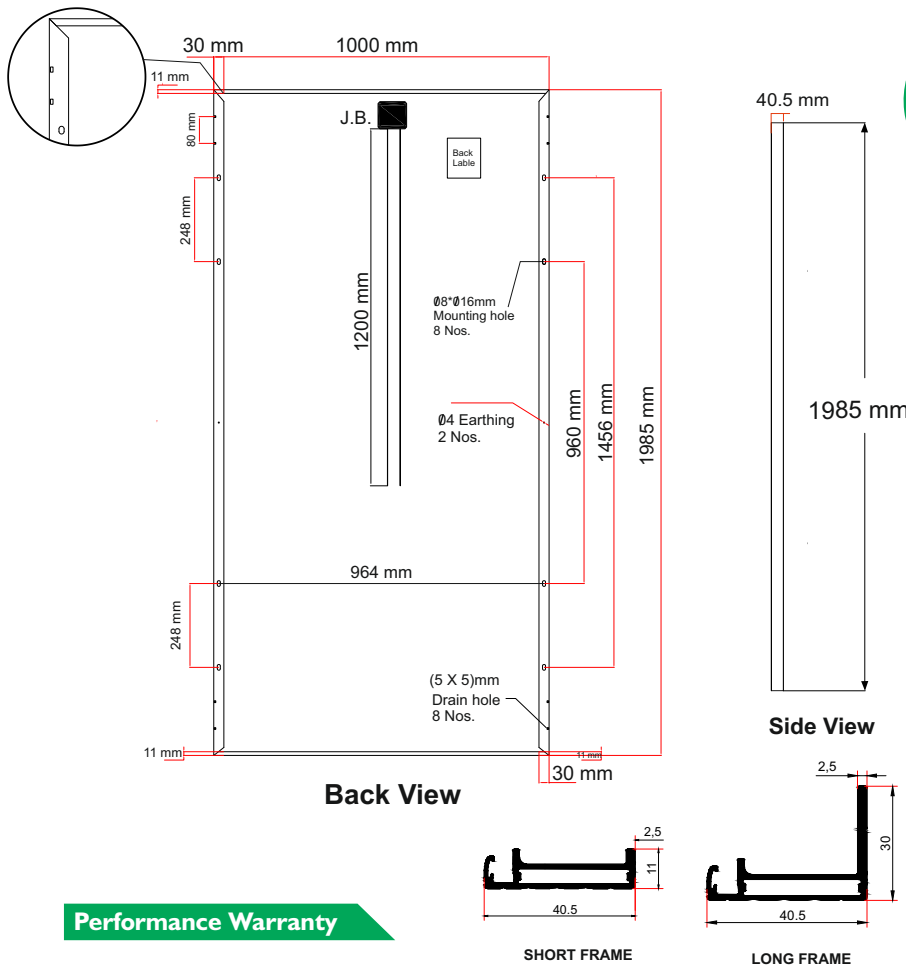
Enhanced Performance



Outstanding Durability



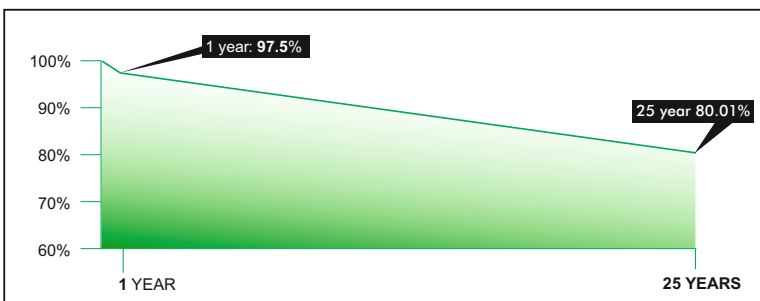
Global Certifications



Performance Warranty

Degradation rate:

- 10% degradation of power during 10years and 20% degradation of power during 20 years.



Key Features

- ARC Tempered glass
- 5 BB Solar Cell
- EL Checked
- IP67 / IP68 JB
- Anodize Aluminum
- High Module efficiency
- Tolerance $\pm$ 5W
- Quality Assurance

Warranty

Performance Warranty	25 years for linear power
Product Warranty	10 Years

Technical Data

Module Type	360W	370W	380W	390W	400W
Capacity Rating - Pmax (Wp)	360	370	380	390	400
Maximum Operating Current(Imp)	9.13	9.27	9.51	9.57	9.64
Maximum Operating Voltage(Vmp)	39.50	39.94	40.03	40.74	41.50
Short Circuit Current (Isc)	9.67	9.79	10.08	10.05	10.23
Open Circuit Voltage (Voc)	48.52	49.12	49.72	49.87	49.90
Module Size	1985 x 1000 x 35 / 1985 x 1000 x 40.5				
Weight Approx	21 KG / 22.35 KG				

Electrical Parameter at NOCT

Module Type	360W	370W	380W	390W	400W
Capacity Rating - Pmax (Wp)	267	275	282	290	297
Rated Current - Imp(A)	7.34	7.46	7.64	7.71	7.88
Rated Voltage - Vmp(V)	36.50	36.89	36.98	37.64	37.78
Short Circuit Current - Isc (A)	7.96	8.04	8.13	8.21	8.34
Open Circuit Voltage - Voc	45.50	45.87	45.98	46.17	46.22

Irradiation 800w/sq.mtr. Surface temperature 45°C (±3 C), Wind speed 1m/s, Ambient 20°C

Mechanical Specification

Model	Sienna 72 cell Family
Cell Type	Monocrystalline Cell 5 BB
Junction Box	IP67 / IP68
Cable & Connectors	1200mm with 4mm ² Mc4 Connector
Frame	Anodized Aluminum Frame (40.5mm Height x 2.5mm Thickness)
Glass Dimension (AR Coated Tempered Glass)	1980mm x 995mm x 3.2mm
Load Test	Front- 5400 Pa, Back- 2700 Pa
Encapsulate	PID free Ethylene Vinyl Acetate Sheet
Back Sheet	UV protected reflective backsheet
Application class	Class A
Electrical safety class	Class II
Fire Safety	Class C (Type 1)
Mounting Holes Pitch (Y)- mm	[A]1456 [B] 960

Permissible Operating Conditions

Operating Temperature Range	From- 40°C to + 85°C
Maximum System Voltage	1000 VDC / 1500 VDC
Maximum Series Fuse Rating	15A / 20A
Hail resistance	Max dia of 25 mm with velocity 23 m/s

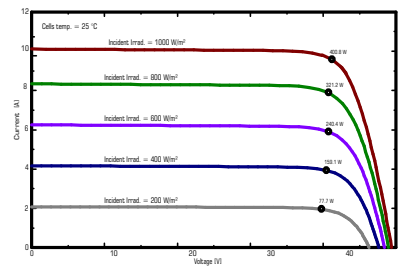
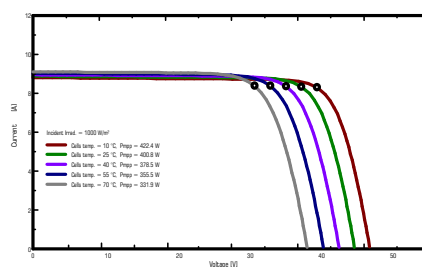
Packaging Information

Container	20'GP	40'HC
Pallets/Container	10	24
Modules/Container	270	648

Temperature Coefficients

Current Temperature Coefficients	0.021 %/C
Voltage Temperature Coefficients	- 0.291 %/C
Power Temperature Coefficients	- 0.397 %/C

IV Curve



The contents of this brochure is for knowledge purpose only and Uratom reserves the rights to change technical parameters at anytime without any notification.

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UratTM
The solar energy specialist

MODULE TECHNOLOGY

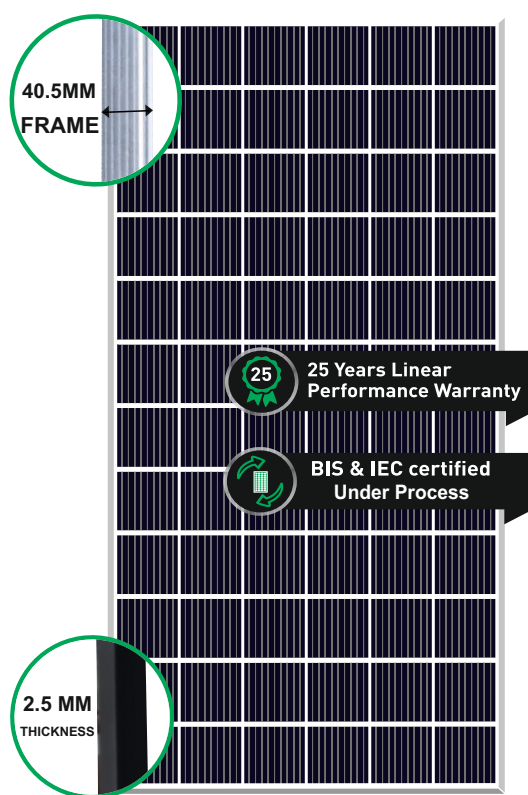
FULL CELL

WITH EXCELLENT QUALITY

400-440W_p POWER OUTPUT RANGE



Global Certifications



The chart is an area graph with a green fill and a black outline. The y-axis is labeled from 60% to 100% in 10% increments. The x-axis has two labels: '1 YEAR' and '25 YEARS'. A callout box points to the 1990 data point, stating '1 year: 97.5%'. Another callout box points to the 2010 data point, stating '25 year 80.01%'. The area under the line is shaded with a green gradient, darker at the bottom.

Year	Percentage of U.S. Population Aged 65 and Older
1990 (1 year)	97.5%
2010 (25 years)	80.01%

- ARC Tempred glass	- Anodize Aluminum
- 9 BB Solar Cell	- High Module efficiency
- EL Checked	- Tolerance $\pm$ 5W
- IP67 / IP68 JB	- Quality Assurance

Performance Warranty	25 years for linear power
Product Warranty	10 Years

Technical Data

Module Type	400W	410W	420W	430W	440W
Capacity Rating - Pmax (Wp)	400	410	420	430	440
Maximum Operating Current(Imp)	10.2	10.23	10.37	10.43	10.49
Maximum Operating Voltage(Vmp)	40.02	40.16	40.42	41.14	41.96
Short Circuit Current (Isc)	10.62	10.64	10.95	11.03	11.07
Open Circuit Voltage (Voc)	47.85	47.99	48.25	48.74	48.96
Module Size	2115 x 1050 x 35 / 2115 x 1050 x 40.5				
Weight Approx	24 KG / 25 KG				

Electrical Parameter at NOCT

Module Type	400W	410W	420W	430W	440W
Capacity Rating - Pmax (Wp)	297	305	312	319	327
Rated Current - Imp(A)	8.05	8.26	8.41	8.45	8.48
Rated Voltage - Vmp(V)	36.97	36.94	37.18	37.84	38.6
Short Circuit Current - Isc (A)	8.67	8.88	9.03	9.07	9.1
Open Circuit Voltage - Voc	44.6	44.74	45.02	45.49	45.71

Irradiation 800w/sq.mtr. Surface temperature 45°C (±3°C), Wind speed 1m/s, Ambient 20°C

Mechanical Specification

Model	Sienna 72 cell Family
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Frame	Anodized Aluminum Frame (40.5mm Height x 2.5mm Thickness)
Glass Dimension (AR Coated Tempered Glass)	2110 x 1045 x 3.2 mm
Load Test	Front- 5400 Pa, Back- 2700 Pa
Encapsulate	PID free Ethylene Vinyl Acetate Sheet
Back Sheet	UV protected reflective backsheet
Application class	Class A
Electrical safety class	Class II
Fire Safety	Class C (Type 1)
Mounting Holes Pitch (Y)- mm	[A]1553.5 [B] 1057.5

Permissible Operating Conditions

Operating Temperature Range	From- 40°C to + 85°C
Maximum System Voltage	1000 VDC / 1500 VDC
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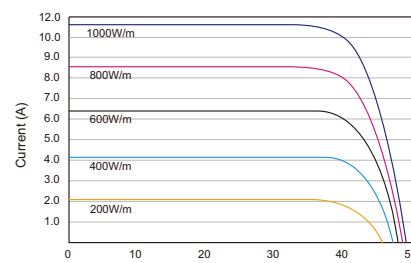
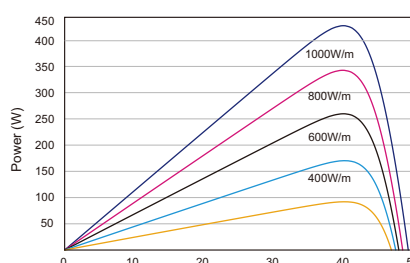
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