

## CS 72 CELL MODULE TYPE: CS 295~315 Watt

Electrical Data : All Data refers to STC (1000W/m<sup>2</sup> , AM1.5G , 25°C)

Type	CS 295 P	CS 300 P	CS 305 P	CS 310 P	CS 315 P	CS 320 P	CS 325 P
Peak Power (0-4.99Wp) Pmax (Wp)	295	300	305	310	315	320	325
Maximum Voltage Vmpp(V)	37.21	37.28	37.82	38.11	38.33	37.70	37.80
Maximum Current Imp(A)	7.93	8.05	8.08	8.14	8.22	8.50	8.60
Open Circuit Voltage Voc (V)	44.55	45.10	45.45	45.72	46.04	46.00	46.20
Short Circuit Current Isc (A)	8.69	8.74	8.79	8.81	8.85	9.03	9.13
Module Efficiency (%)	15.16	15.41	15.67	15.93	16.18	16.44	16.70

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



## Electrical Parameters at NOCT

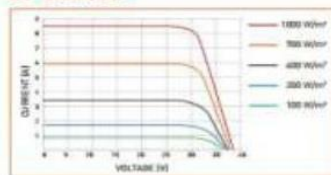
Type	CS 295 P	CS 300 P	CS 305 P	CS 310 P	CS 315 P	CS 320 P	CS 325 P
Maximum Power Pmax (Wp)	216.3	220.19	223.7	227.3	231.18	234.6	238.3
Maximum Power voltage V@Pmax(V)	33.85	33.98	34.1	34.18	34.3	34.5	34.6
Maximum Power current I@Pmax(A)	6.39	6.48	6.56	6.65	6.74	6.8	6.88
Open Circuit Voltage Voc (V)	42.2	42.26	42.3	42.4	42.5	42.6	42.7
Short circuit current Isc(A)	6.86	6.943	7	7.1	7.18	7.3	7.38

NOCT irradiance 800W/m<sup>2</sup> , ambient temperature 20°C, Wind speed 1m/sec.

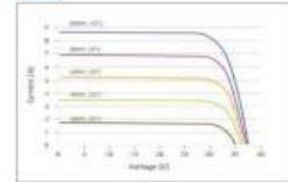
**Temperature Coefficients (Tc)** permissible operating conditions

Tc of Open Circuit Voltage (β)	-0.31%/°c ± 0.02
Tc of Short Circuit Voltage (α)	0.057%/°c ± 0.01
Tc of Power	-0.41%/°c ± 0.02
NOCT	45±2°C
Maximum Series Fuse Ratings	15 A
Temperature Range	-40°C to +85 °c
Maximum System Voltage	1000 V DC
Limiting Reverse Current (Ir)	15.0 A

### IV Curves



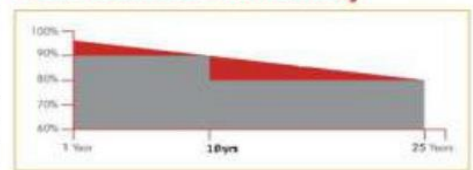
### IV CURVE



## Mechanical Data

Length x Width x Height (in mm)	1964mm x 991mm x 40mm (± 1.5 mm)
Weight	21.50Kg
Junction Box	IP 65 / IP 67 rated with 3 Bypass diodes
Cable & Connectors	4 sqm (12AWG) solar cable 1000mm x 2 nos black MC4 compatible connectors
Application Class	Class A (Safety class II)
Superstrate (Glass)	3.2 mm High transmission low iron tempered glass AR coated / non ARC
Solar cells & Orientation	72 No's (12x6) polycrystalline solar cells -3BB & 4BB (156.75x156.75mm)
Cells Encapsulant	EVA (Ethylene Vinyl Acetate) - FC/UFC
Back Sheet	Composite ilm -White : ( Black & Transparent optional)
Frame	Silver Anodized aluminum frame with twin wall profile (Black Optional)
Mechanical Load Test	Sustain Heavy wind & snow loads (2400 Pa & 5400 Pa or 550 Kg/m <sup>2</sup> Maximum diameter of 24 mm with Hail impact of 83 Km/h

## Performance Warranty



## Warranty and Certification

Product Warranty**	5 Years
Performance Warranty**	Guaranteed power output 90% warranty for 10 years and 80% for 25 years
Approvals and certificates	Products : IEC 61215 Ed 2 , IEC 61730 , IEC 61701, CE

## Packaging Information

Container	20GP
Pallets /Container	10
Pieces/Container	260

\*\* Refer to Blue Citizen Solar warranty documents for terms and conditions.

\*\* Specifications included in this datasheet are subject to change without notice, Electrical data without guarantee.

Please confirm your requirement with the company representative while placing your order.

\*\* Black and transparent backsheet and black frame module without IEC certified.