

## STECA-Bergen Solar Products Pvt Ltd

Phone:0124-4126024

Fax: 0124-4126020

Email: [steca.bergen@bergengroupindia.com](mailto:steca.bergen@bergengroupindia.com)

### Technical specifications:

Description	Specification	Unit
Cell Type	Polycrystalline, 156 x 156	mm
Fill Factor	0,157	(%C)
Number of Cells Maximum	60	Nos
Normal Operating Cell Temp	47±2	°C
Cell Efficiency (%)	16	%
Module Efficiency(%)	14	%
Power rating(Pmax) Open	215	Wp
Open Circuit Voltage (Voc)	36.15	V
Short Circuit Current (Isc)	8.19	A
Maximum Power Voltage (Vmp)	28.48	V
Maximum Power Current (Imp)	7.57	A

### General specifications

Total no of strings	6
Tolerance at Pmax	±3
Maximum System Voltage	1000
Junction Box PROTECTION	IP 65
Backsheet/ Tedlar	CRIMPLEX - PVDF 38-250
EVA	Eva - Etimex Vistasolar 496(fast cure), material: EVA-copolymere; colour: colourless-transparent, quality: fast cure, both sides non st; formulation: 496.10; width: 1.000 mm, thickness: 0,500 mm; reel diameter: 269 mm; reel length: 100 m, core: carton core 76 mm; type of film: flat film, kind of winding: trimmed edges
Flux	Kester 952S or equivalent
Ribbons	Bruker Spaltec, Sn62 Pb36 Ag2, .15 x 2mm or equivalent
Double Sided Tapes	Tesa/ Lohman 19mm x .8mm or equivalent

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Glass	St. Gobain, 4/3.2mm Albrino S, extra clear textured glass or equivalent
Glue for Junction Box fixation	Dow Corning 804 / 744 or equivalent
Junction Box make	Bizlink 4 connector rail/ Tyco Solarloc 4 connector rail or equivalent

**Factory:** J-11, SDF, NOIDA Special Economic Zone, Phase – II, NOIDA – 201 305 (UP), INDIA, Tel: +91 120 4745000, Fax: +91 120 246 0163, Email: [info@stecabergen.com](mailto:info@stecabergen.com)

**Head Office:** 305, Magnum House-I, Commercial Complex Karampura, New Delhi – 110 015 INDIA

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Email: [steca.bergen@bergengroupindia.com](mailto:steca.bergen@bergengroupindia.com)**Other electrical Specifications.**

Max.Series fuse Rating	12A
No of Bypass diodes	3pcs
Output Cables	4mm <sup>2</sup> , TUV certified,1000mm
Isc Temperature coefficient (A%/°C)	0,05(%C)
Voc Temperature coefficient (V%/°C)	-0,35(%C)
Maximum Power Temperature Coefficient (W%/°C)	-0,45(%C)
IV curve	Should be provided.

**Characteristic Data**

Solar Cells per Module	60 Nos. connected in series
Type of solar Cell	Multi crystalline 156mm x 156 mm full square

**Physical Properties**

Dimensions	1665x995x50
Weight	22kg
Dielectric Insulation Voltage	3000max,VDC
Operating Temperature	-40 to +85oC
Storage Temperature	-40 to +85oC
Maximum Mechanical Load	5400N/m <sup>2</sup>
Package Contents	23pcs/box/25pcs/pallet

**Certification**

Certifications

\*IEC 61215, Safety Tested IEC 61730, CE Marking  
UL 1703, CEC Listing & class C Fire Rating

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**Sales Office :** 690-691, Udyog Vihar

Phase V, Gurgaon-122016, Haryana

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## **STECA-Bergen Solar Products Pvt Ltd**

**Marking and Packing:** Standard packing in a suitable cartonbox with protections 23pcs/box/25pcs/pallet.

**Safety and Handling:** Wear Suitable safety gloves when handling, The unit is very fragile don't drop, use specified tools and torque when tightening the screws nuts.

**Storage:** Should be stored low humid <RH60 and temperature is maintained.

### **Inspection criteria for IQC:**

**Should provide certificate of coating IV curve, module mechanical test certificates.**

As per IS standard Inspection levels (Sampling Plan)

Critical: 01, Major : 02, Minor: 03. all above the level are rejected.

### **Parameters to be checked:**

**Visual:** Colour, edge burrs alignment, bus bar placing etc

**Dimensional:** check length, dia if any, coating and other dimensions as per drawing.

**Other:**

**Tolerance & Ref:** As per the drawing.

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Tel: 011 2592 0283 to 86 Fax: +91 2592 0289 E-mail: [bergene@vsnl.com](mailto:bergene@vsnl.com)