

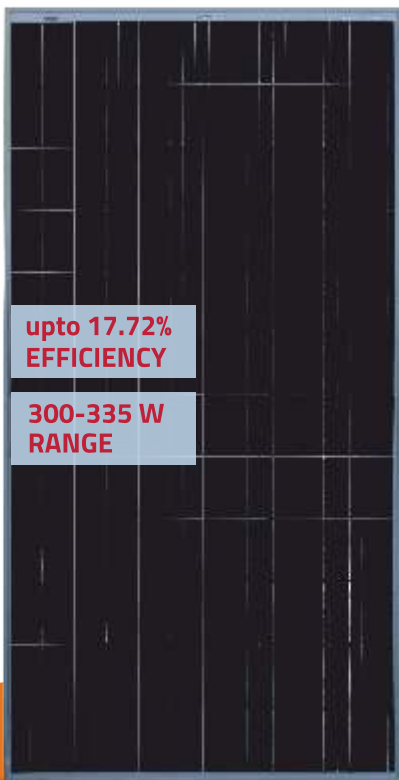
SBB POLY CRYSTALLINE SOLAR PV MODULES



PATANJALI

Anant Urja Srot...

www.patanjalirenewable.com



upto 17.72%
EFFICIENCY

300-335 W
RANGE

- EXTREMELY **RELIABLE PRODUCT** SUITING ALL ENVIRONMENT CONDITIONS
- **100% EL TESTED** TO ENSURE DEFECT FREE MODULES
- CERTIFIED FOR **PID RESISTANCE**
- CERTIFIED FOR **SALT MIST CORROSION RESISTANCE**
- SUPERIOR **LOW LIGHT** IRRADIATION PERFORMANCE 200W/m²
- **POSITIVE** GUARANTED TOLERANCE

APPLICATIONS

- Solar pumping applications
- Off grid residential systems
- On-grid rooftop residential, commercial and industrial roof top installations

PREL/ENG/TDS/02-Rev. 01

TECHNICAL DATA

POLY 72 CELLS MODULE SERIES

Electrical Data All Data refers to STC (AM 1.5, 1000 W/m², 25°C)

Sl. No.	MODEL	PREL 300W	PREL 305W	PREL 310W	PREL 315W	PREL 320W	PREL 325W	PREL 330W	PREL 335W
1	Peak power, (0' + 4.99 Wp) Pmax (Wp)	300	305	310	315	320	325	330	335
2	Maximum voltage, Vmpp (V)	37.27	37.82	38.10	37.50	37.70	37.80	38.00	38.10
3	Maximum current, Impp (A)	8.05	8.08	8.14	8.40	8.50	8.60	8.70	8.80
4	Open Circuit Voltage, Voc (V)	45.10	45.45	45.72	45.80	46.00	46.20	46.30	46.50
5	Short circuit current, Isc (A)	8.74	8.79	8.81	8.92	9.03	9.13	9.24	9.35
6	Module efficiency (%)	15.87	16.13	16.40	16.66	16.93	17.19	17.46	17.72

*STC : Irradiance 1000 W/m², cell temperature 25°C, air mass AM1.5 according to EN 60904-3, Average efficiency reduction of 5% at 200 W/m² according to EN 60904-1.

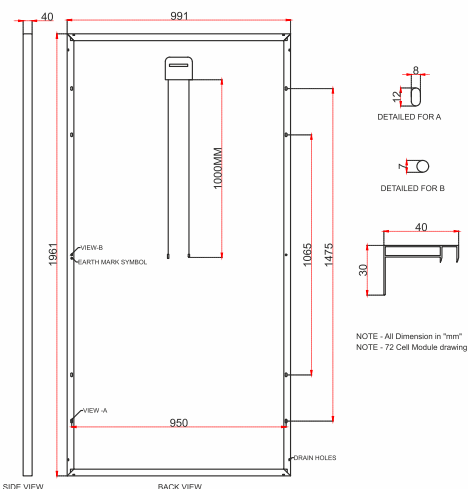
Electrical Parameters at NOCT

Power (Wp) at NOCT	220.190	223.860	227.530	231.2	234.6	238.3	242	245.6
V@Pmax(V) at NOCT	34.189	34.694	34.950	34.4	34.5	34.6	34.8	34.9
I@Pmax (A) at NOCT	6.450	6.474	6.522	6.73	6.8	6.88	6.95	7.03
Voc (V) at NOCT	41.850	42.175	42.426	42.5	42.6	42.7	42.7	42.8
Isc (A) at NOCT	7.074	7.115	7.131	7.22	7.3	7.38	7.46	7.54

NOCT irradiance 800 W/m², ambient temperature 20°C, wind speed 1 m/sec

Temperature co-efficients (TC) permissible operating conditions

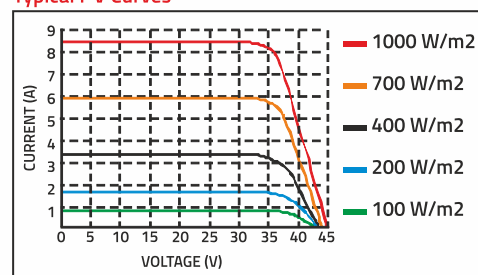
TC of open circuit voltage (β)	-0.2608 % /°C
TC of short circuit current (α)	0.0589 % /°C
TC of power (γ)	-0.3187 % /°C
Maximum system voltage	1000/1500 V
NOCT	46°C ± 2°C
Temperature range	-40°C to + 85°C



Mechanical Data

Length x Width x Height	1961 x 991 x 40 mm
Weight	21.5 kg ± 0.500 kg
Junction Box	IP67 / IP68 3 Bypass diodes
Cable & Connectors	1000mm/1200mm length cables & MC4 Connectors
Application Class	Class A (Safety Class II)
Superstrate	High transmittance ARC Glass
Cells	72 Polycrystalline solar cells
Cell Encapsulant	EVA (Ethylene Vinyl Acetate)
Back Sheet	Composite Film
Frame	Anodized aluminium frame with twin wall profile
Mechanical Load Test	5400 pa-front ; 2400 pa-back
Maximum Series Fuse Rating	15 A

Typical I-V Curves



Warranty and Certifications

Product Warranty**	10 years
Performance Warranty**	Linear Power Warranty for 30 year with 2.5% for 1st year degradation and 0.67% from year 2 to year 30
Approvals and certificates :	IEC 61215, IEC 61730, IEC 61701, IEC 62804, IS14286, IS61730

Packaging Information

Qty.: 25 in 1 Box

Qty.: 02 in 1 Box

* Module Efficiency as per Aperture area

** Refer to PATANJALI RENEWABLE ENERGY'S warranty document for terms and conditions.

CAUTION : READ SAFETY AND INSTALLATION MANUAL BEFORE USING THE PRODUCT.

specifications included in this datasheet are subject to change without notice. Electrical data without guarantee. Please confirm your exact requirement with the company representative while placing your order.

PREL/ENG/TDS/02-Rev. 01

TDS-5BB-Poly-72 Cells



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