

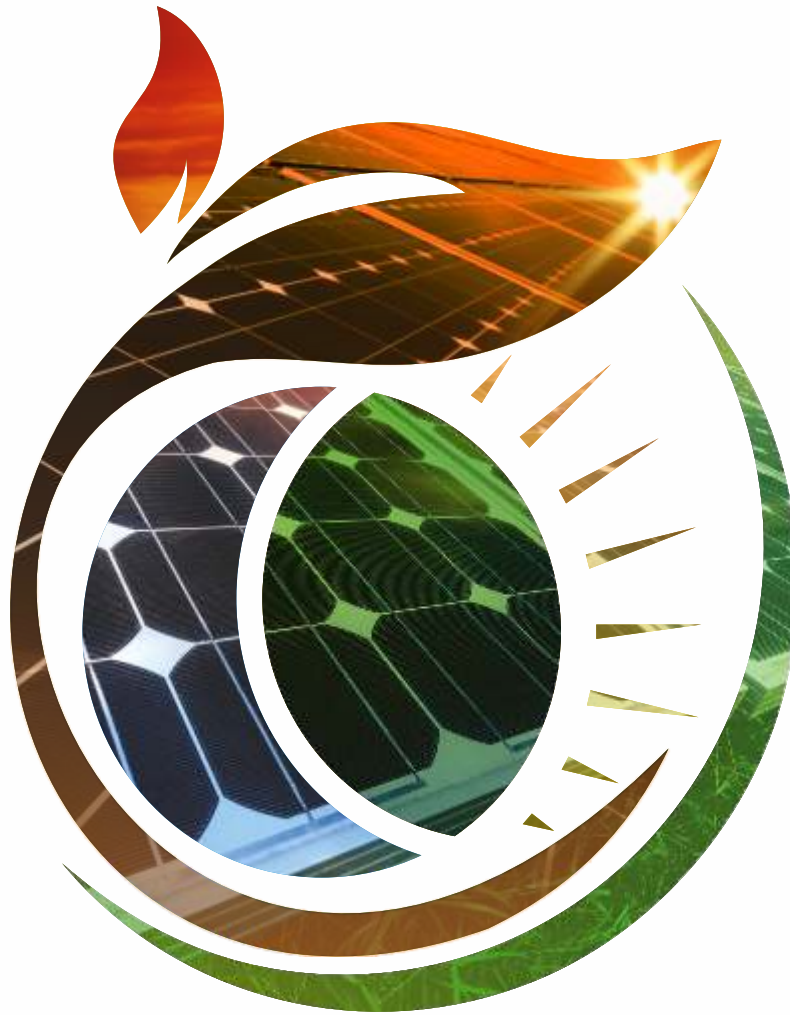
SBB POLY CRYSTALLINE SOLAR PV MODULES



PATANJALI

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www.patanjalirenewable.com



- 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** GUARANTEED TOLERANCE

APPLICATIONS

- Solar pumping applications
- Solar Home Appliances
- Solar Street Lights

TECHNICAL DATA

POLY 36 FULL CELLS MODULE SERIES

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

MODEL	PREL 150W	PREL 155W	PREL 160W	PREL 165W	PREL 170W	PREL 175W
Peak power, (0~ + 4.99 Wp) Pmax (Wp)	150	155	160	165	170	175
Maximum voltage, Vmpp (V)	18.8	18.95	19.11	19.22	19.38	19.39
Maximum current, Impp (A)	8.02	8.18	8.38	8.6	8.78	9.05
Open Circuit Voltage, Voc (V)	22.9	23.12	23.15	23.29	23.4	23.60
Short circuit current, Isc (A)	8.52	8.69	8.93	9.14	9.32	9.65
Module efficiency (%)	15.63%	16.15%	16.67%	17.19%	17.71%	18.23%

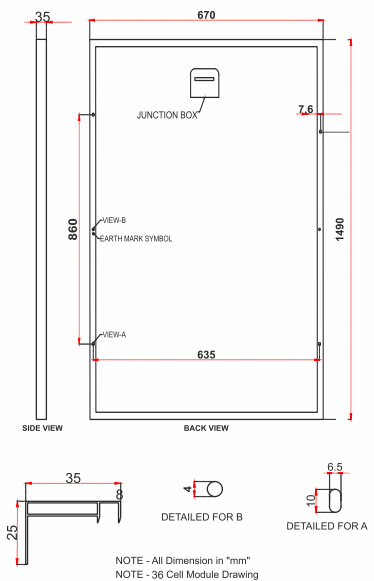
*STC: Irradiance 1000 W/m², cell temperature 25 °C, air mass AM1.5 according to EN 60904-3.
Average efficiency reduction of 5 % at 200 W/m² according to EN 60904-1.

Temperature co-efficients (TC) permissible operating conditions

TC of open circuit voltage (β)	-0.27 % /°C
TC of short circuit current (α)	0.024 % /°C
TC of power (γ)	-0.40 % /°C
Maximum system voltage	1000 V
NOCT	46°C ± 2°C
Temperature range	-40°C to + 85°C

Mechanical Data

Length x Width x Height	1490 x 670 x 35 mm
Weight	11.2 kg ± 0.500 kg
Junction Box	IP67 2 Bypass diodes
Cable & Connectors	OPTIONAL
Application Class	Class A (Safety Class II)
Superstrate	High transmittance ARC Glass
Cells	36 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



Warranty and Certifications

Product Warranty**	10 years
Performance Warranty**	Linear Power Warranty for 25 year with 2.5% for 1st year degradation and 0.67% from year 2 to year 25
Approvals and certificates :	IEC 61215, IEC 61730, IEC 61701, IEC 62804, IS14286, IS 61730

* 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/05-Rev. 01
TDS-5BB-Poly-36 Full Cells

Packaging Information

Qty.: 30 in 1 Box

Qty.: 04 in 1 Box



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