

# High Efficiency Solar PV Modules for Rooftop and Ground Mounted Systems

Built to maximise generation,  
reduce power losses



Higher power modules with latest  
**N-type TOPCon** technology



Highest efficiency modules in India \*  
up to **22.9%**



Bifacial modules with **dual side power generation** for even higher output



BIS certified to latest **IS/IEC standards**

## Backed by best-in-class technology



Our manufacturing facility is vetted  
by **PI Berlin** for **USA's DFC** \*\*



We use advanced **European technology**  
for stringing and lamination

\* At standard test conditions (STC),  $E = 1000 \text{ W/m}^2$ ,  $TC = 25^\circ \text{ C}$ ,  $AM = 1.5$

\*\* DFC: U.S. International Development Finance Corporation

IS 14286 (Part 1 / Sec 1): 2023  
(IEC 61215-1: 2021)  
IS/IEC 61730-1: 2016  
IS/IEC 61730-2: 2016



R-62001708

**BIS Certified**



**ALMM Empanelled**



**ISO Certified**  
ISO 45001 | ISO 14001 | ISO 9001



\* On solar panel

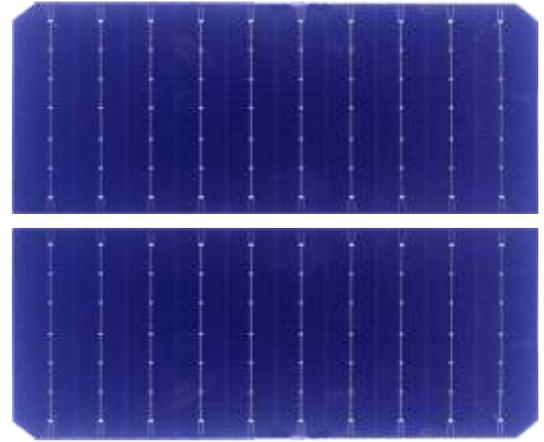


**Electrical Specifications (front)**

Rated Power Watts (STC) *	590	585	580	575	570
Module Efficiency	22.9%	22.7%	22.5%	22.3%	22.1%
Open Circuit Voltage - Voc (Volts)	53.00	52.90	52.80	52.70	52.60
Short Circuit Current - Isc (Amps)	14.00	13.90	13.80	13.70	13.60
Max Power Voltage - Vmp (Volts)	44.71	44.50	44.28	44.07	43.86
Max Power Current - Imp (Amps)	13.20	13.15	13.10	13.05	13.00

\* Rated power data at standard test conditions (STC), E = 1000 W/m<sup>2</sup>, TC = 25 °C, AM = 1.5

\* Tolerance of 0 - +4



TOPCon Solar Cell - 10 Busbar

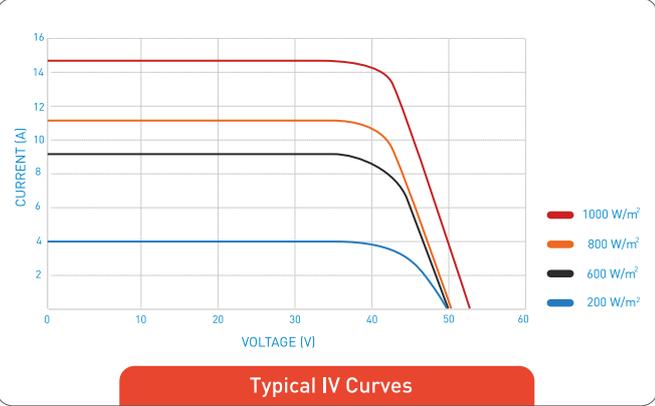
**Bifacial Specifications**

Maximum Power (BNPI)	590	585	580	575	570
	654	648	643	637	632
Maximum Power (Albedo%)	637W (10%)	632W (10%)	626W (10%)	621W (10%)	616W (10%)
	684W (20%)	679W (20%)	673W (20%)	667W (20%)	661W (20%)

BNPI : Irradiance : Front 1000W/m<sup>2</sup> , Rear 135W/m<sup>2</sup>, Cell temperature 25°C AM=1.5

**Temperature Co-efficient**

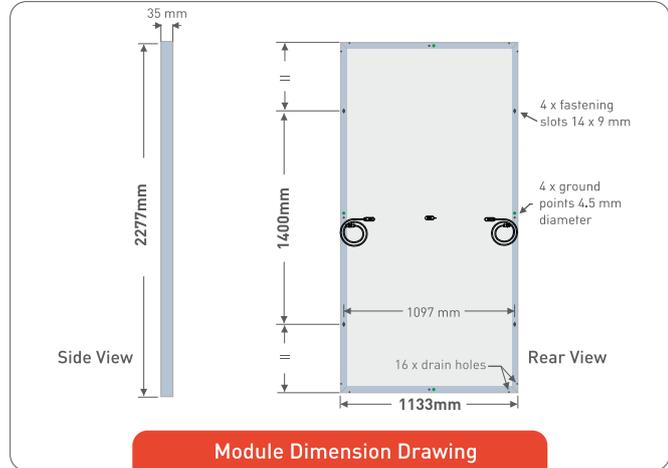
Open-Circuit Voltage	-0.233% / °C
Short-Circuit Current	0.056% / °C
Rated Power	-0.287% / °C
NOCT (Nominal Operating Cell Temperature)	43 ± 2°C



Typical IV Curves

**Mechanical Data**

Number of Cells and Dimensions	144 Cells - M10 Half Cut
Dimensions in mm: L x W x H	2277mm x 1133mm x 35mm
Mounting Dimensions in mm: L x W	1400mm x 1097mm
Weight	27 Kg
Front Glass	3.2mm thick, toughened anti-reflective coated glass, high transmission
Encapsulant	POE - EPE
Back Sheet	Transparent PET - High Barrier
Frame	Anodized Aluminum Alloy
Junction Box	IP 67
Number of Bypass Diodes	3 Diodes
Cables	4 Sq. mm 1.2 Mtr Length Cable
Connectors	MC4



Module Dimension Drawing

**Warranty and Certificates**

Product Warranty	10 years
Linear Power Warranty	Not less than 89% of the minimum peak power by end of 25th year
Certificates	IS 14286 (Part 1/Sec 1) : 2023 / IEC 61215-1-1: 2021, IS/IEC 61730-1: 2016, IS/IEC 61730-2: 2016

**Packaging Information**

No. of panels per pallet	30 nos
No. of pallets per container (40' HC)	22 nos
Total no. of panels per container (40' HC)	660 nos

**Permissible Operating Conditions**

Operating Temperature Range	-40° C to 85° C
Max. System Voltage	1500V
Max. Series Fuse Rating	25A
Maximum Wind Load	2400 Pa
Maximum Snow Load	5400 Pa
Resistance Against Hail	Maximum 25mm Dia with Impact speed of 83 km/h
Application Class	Class A (Safety Class II)

Note: Specifications are subject to change without notice