

PIONEER SERIES

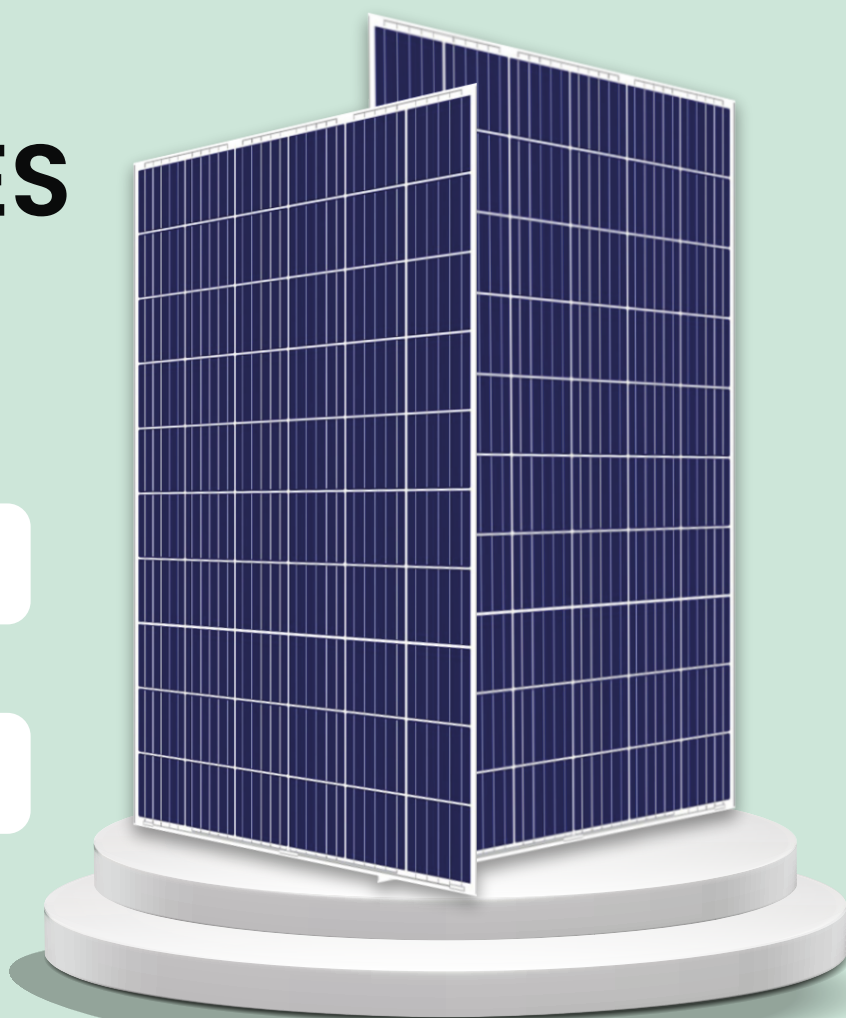
60 Cell Modules

10
YEARS

WARRANTY FOR MATERIALS
AND PROCESSING

30
YEARS

WARRANTY FOR LINEAR
POWER OUTPUT



Product certifications:

IS 14286:2010 | IEC 61215: 2005 IS | IEC 61730-2:2004 IS
| IEC 61730-1:2004 | IEC 62804 | IEC 61853 | IEC 61701

Salient features

- Manufactured using exceptional quality long-lasting Polycrystalline cells designed for Residential, Commercial and Industrial Applications.
- High transmittance and low iron tempered glass with anti-reflective coating to catch and absorb light immediately and effectively.
- Capable to withstand high wind and snow loads.
- PID (Potential Induced Degradation) resistance to avoid power loss during extreme environment conditions like salt mist, blowing sand, etc.
- Anodized Aluminium Frame provides high torsion resistance which means that the panel will always retain its shape and not bend or twist.
- Advanced EVA (Ethylene Vinyl Acetate) encapsulation for good radiation transmission & low degradability to sunlight

Electrical Data¹

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

Peak Power P_{max} (Wp)	250	260	265	270
Maximum Voltage V_{mpp} (V)	30.8	30.9	31.0	31.1
Maximum Current I_{mpp} (A)	8.14	8.42	8.56	8.69
Open Circuit Voltage V_{oc} (V)	37.5	37.7	37.8	37.9
Short Circuit Current I_{sc} (A)	8.62	8.89	9.02	9.15
Module Efficiency (%)	15.4	16.01	16.32	16.62

(1) STC : 1000W/m² irradiance, 25°C cell temperature, AM1.5g spectrum according to EN 60904-3.
Average relative efficiency reduction of 5% at 200W/m² according to EN 60904-1.

Electrical Parameters at NOCT²

Power (W)	183	190	196	200
$V@P_{mpp}$ (V)	27.72	27.81	27.9	28.01
$I@P_{max}$ (A)	6.60	6.82	7.01	7.12
V_{oc} (V)	34.87	35.06	35.15	35.24
I_{sc} (A)	6.98	7.21	7.31	7.42

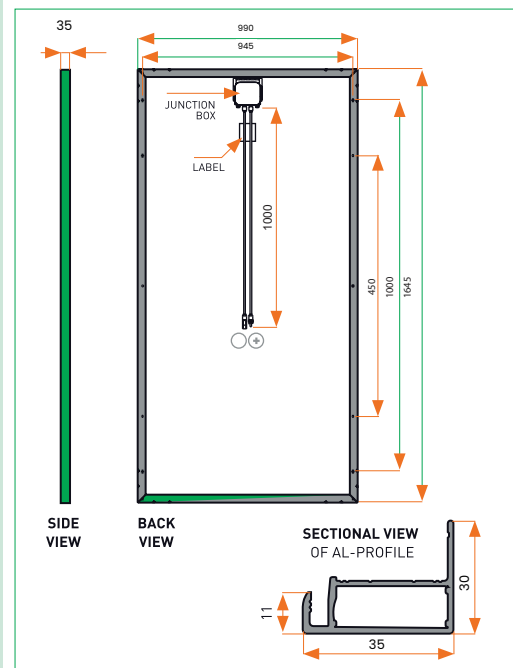
(2) NOCT irradiance 800 W/m², ambient temperature 20°C, wind speed 1 m/sec.

Temperature Coefficients (Tc)

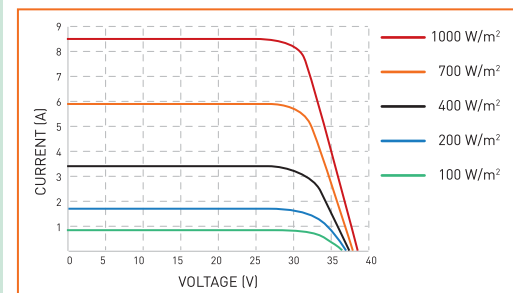
Permissible operating conditions

Tc of Open Circuit Voltage (B)	-0.31%/C
Tc of Short Circuit Current (a)	0.0402%/C
Tc of Power (Y)	-0.426%/C
Maximum System Voltage	1000V
NOCT	45C +2C
Temperature Range	-40C To +85C

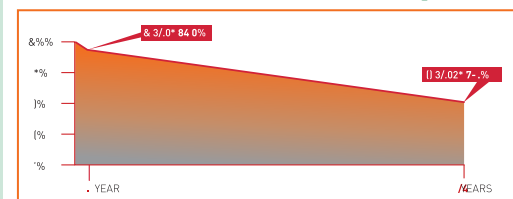
Dimensions in mm



Typical I-V Curves



Performance Warranty



Packaging Information

Container	20'GP	40'GP	40'HC
Pallets/Container	10	28	28
Pieces/Container	250	700	700

Mechanical Data

Length × Width × Height	1645 X 987 X 40mm
Weight	22Kgs
Junction Box	1 P67, 3 By Pass Diodes
Cable & Connectors	1000mm Length Mc4 Connectors
Applications Class	Class A (Safety Class II)
Superstrate	3.2mm High Transmission Low Iron Tempered Glass, AR Coated
Cells	72 Cells, 4BB/5BB Cells, Poly / Mono
Cells Encapsulant	EVA
Back Sheet	PET
Frame	Anodized Al Alloy Type 6063
Mechanical Load Test	5400 PA

Warranty and Certifications

Product Warranty**	10 Years
Performance Warranty**	Linear Power warranty for 25 Years with 2.5% for 1st year degradation and 0.67% from year 2 to year 25
Approvals and Certificates	IS 14286 : 2010/ IEC 61215 : 2005, IS/IEC 61730 (PART 1) : 2004 & IS/IEC 61730 (PART 2) : 2004 IEC 61701, IEC 61853, IEC 62804

****Refer to IB Solar Warranty Document for Terms & Conditions**

CAUTION : Read Safety and Installation Manual Before Using The Product. Specifications included in this datasheet are subject to change without notice. Please confirm your exact specification with the company representative while placing your order.