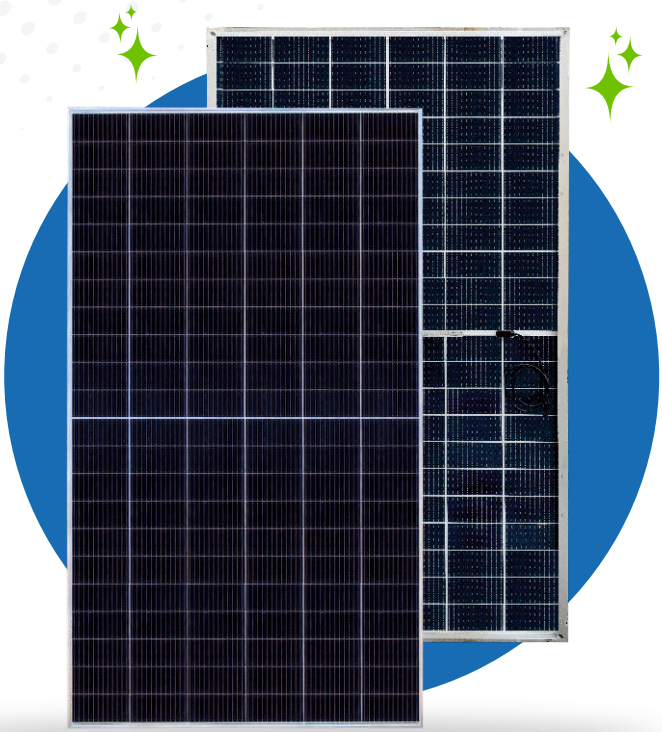
SOLAR PV MODULE (DCR/NON-DCR)
120 HALF CUT MONO PERC CELL 585-610 W

BIFACIAL DUAL GLASS



TRANSITION TO A BRIGHTER TOMORROW

- Based on G12-210mm wafer, best choice for ultra-large power plant
- Advanced module technology delivers superior module efficiency
  - •G12 Gallium-Dopped Wafer
  - •Smart Soldering
  - •12 Busbar Half-Cut Cells
- ARC Coated, High Transmission Glass for Higher Energy Yield
- High Module Quality Ensures Long-Term Reliability

HIGH PERFORMANCE GUARANTEE!

30 YEARS WARRANTY FOR LINEAR POWER OUTPUT

12 YEARS PRODUCT WARRANTY

SMBB TECHNOLOGY
Better light trapping and current collection to improve module power output and reliability

PID Resistance
Excellent Anti-PID performance guarantee via optimized mass-production process and materials control

Higher Power Output
Module power increases 5-25% generally, bringing significantly lower LCOE and higher IRR.

Autobussing & Soldering Technology
Induction based Improved soldering quality without pollution to module.

Enhanced Mechanical Load
Certified to withstand wind lead (2400 Pascal) and snow load (5400 Pascal)

IDEAL FOR

Residential | Commercial | Utility | Off-grid

CERTIFICATION

IEC 62804 (PID) | IEC 61701 (Salt Mist) | IEC 61726 (Ammonia) | IEC 62782 (DMLT)
IEC 61853-1 & 2 (Panfile & IAM) | LID, LETID | IEC 60068 (Sand & Dust) | IEC 61215
IEC 62759 (Transportation) | CEC, INMETRO, CE | IEC 61730 | UL 61730

India's Second Largest Integrated Solar PV Cell and Module Manufacturer | Available in All Black Range

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120 HALF CUT MONO PERC CELL

BIFACIAL DUAL GLASS 585-610 W

Premier Energies

ELECTRICAL CHARACTERISTICS(STC)

MODULE TYPE	PE 585G 12HGB	PE 590G 12HGB	PE 595G 12HGB	PE 600G 12HGB	PE 605G 12HGB	PE 610G 12HGB
Maximum Power (Pmp)	585	590	595	600	605	610
Open Circuit Voltage (Voc)	41.05	41.20	41.40	41.60	41.80	41.95
Short circuit Current (Isc)	18.26	18.29	18.32	18.34	18.37	18.41
Maximum Power Voltage (Vmp)	33.90	34.05	34.23	34.41	34.57	34.73
Maximum Power Current (Imp)	17.26	17.33	17.38	17.44	17.50	17.57
Module Efficiency (nm)	20.67	20.85	21.02	21.20	21.38	21.55
Power Tolerance	(-0,+5W)					
Maximum System Voltage	1500V(UL & IEC)					
Maximum Series Fuse Rating	30 Amp					

*STC Irradiance 1000W/m2, Module Temperature 25°C and AM 1.5 Measuring Tolerance: ±3%

ELECTRICAL CHARACTERISTICS(NOCT)

MODULE TYPE	PE 585G 12HGB	PE 590G 12HGB	PE 595G 12HGB	PE 600G 12HGB	PE 605G 12HGB	PE 610G 12HGB
Maximum Power (Pmp)	430	434	438	441	445	449
Open Circuit Voltage (Voc)	38.36	38.50	38.68	38.87	39.06	39.20
Short circuit Current (Isc)	14.56	14.58	14.60	14.62	14.64	14.68
Maximum Power Voltage (Vmp)	31.46	31.60	31.76	31.93	32.08	32.23
Maximum Power Current (Imp)	13.68	13.74	13.78	13.82	13.87	13.92
Module Efficiency (nm)	14.98	15.12	15.27	15.41	15.55	15.70

*NOCT- Irradiance 800 W/m2, AM 1.5, Ambient Temperature 25°C and Wind speed 1m/s Measuring Tolerance: ±3%

BIFACIAL GAIN (70±10%)		PE 585G 12HGB	PE 590G 12HGB	PE 595G 12HGB	PE 600G 12HGB	PE 605G 12HGB	PE 610G 12HGB
10%	Power Pmp	643.5	649.0	654.5	660.0	665.5	671.0
20%	Power Pmp	702.0	708.0	714.0	720.0	726.0	732.0
30%	Power Pmp	760.5	767.0	773.5	780.0	786.5	793.0

- Bifacial gains depends on the power plant design and albedo of installation site
- Power Bifaciality=Pmax(Rear)/Pmax(Front) and Pmax Front are tested under STC Measuring Tolerance: ±3%

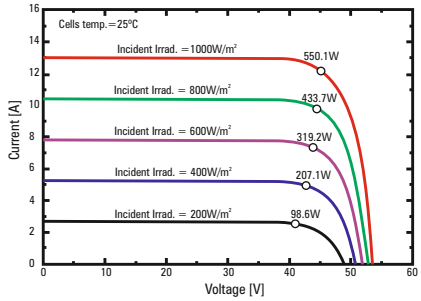
TEMPERATURE CHARACTERISTICS

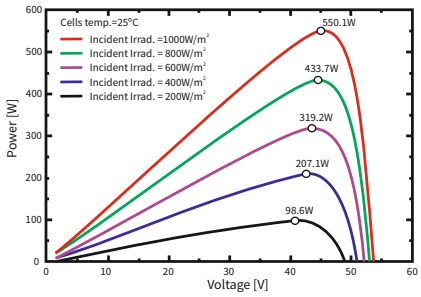
Pmax Temperature Coefficient	-0.35%/°C
Voc Temperature Coefficient	-0.27%/°C
Ise Temperature Coefficient	0.04%/°C
Operating Temperature	-40°C To + 85°C
Nominal Operating Cell Temperature	42 ± 3° C

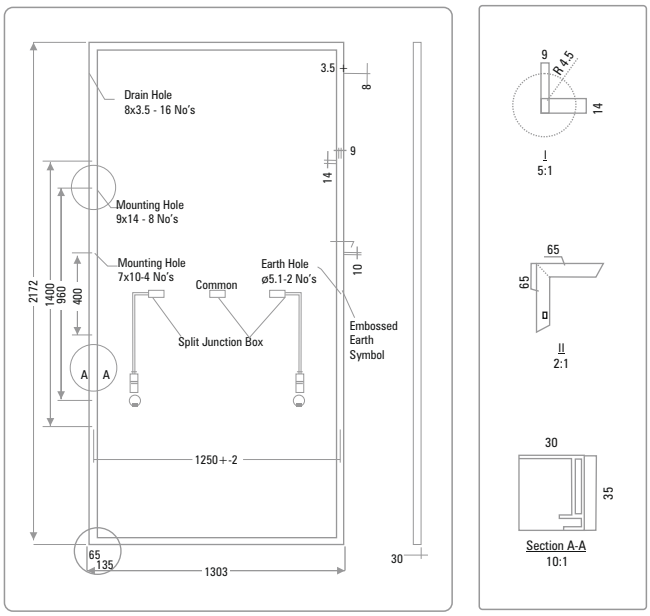
Product Certificates*

IEC 61215,61730/ INMETRO

UL 61730/IEC 61701/IEC 62716/IEC 60068-2-68







MECHANICAL SPECIFICATIONS

External Dimensions	2172(±2mm) x 1303 (±2mm) x 35(±1mm)
Weight	34 (± 3%) Kg
Solar Cells	12 BB, Mono PERC - crystalline 105mm x 210mm
Front Glass	2.0mm, Heat Strengthened Glass
Rear Cover	2.0mm, HS Glass
Frame	Anodized Aluminium Alloy (Silver/Black)
Junction Box	3 Split, IP 68 Rated
Connector	Mc4 Compatible
Mechanical Load	5400 Pa For Snow Load, 2400 Pa Wind Load
Fire Performance	TYPE 29 (UL 61730) Or Class C (IEC 61730)
Output Cable	4.0 mm2 400 mm Length

FRAME PROFILE (Long 35X30MM & Short 35x15mm)

PACKING CONFIGURATION

Container	40' HC
Pieces per Pallet	31
Pallets per Container	744
Pieces per Container	24

FIRSTS YEAR DEGRADATION < 2.0%

YEAR 2-30 POWER DEGRADATION < 0.45%

For more details, please contact:

PREMIER ENERGIES GROUP

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