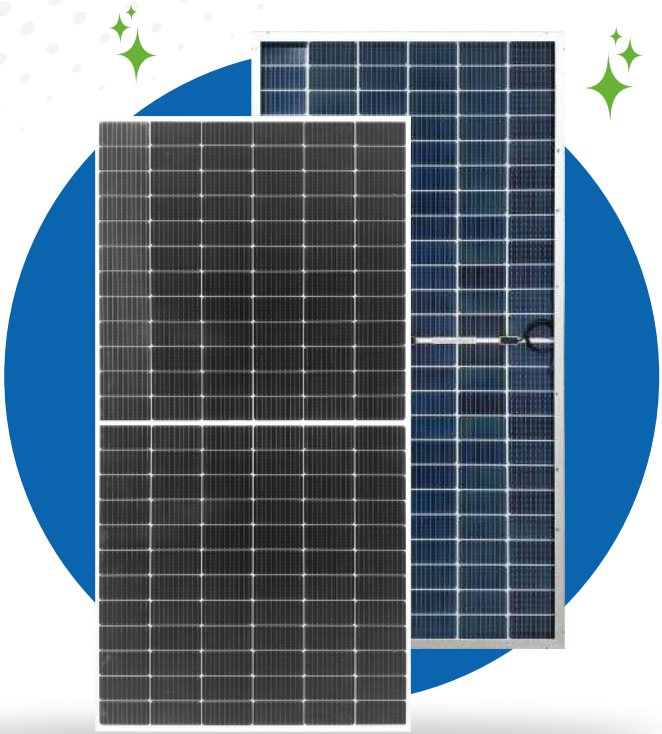
SOLAR PV MODULE
108 HALF CUT MONO PERC CELL
BIFACIAL DUAL GLASS 385-415 W



Module Made with Premier Energies M10 Make Cell

TRANSITION TO A BRIGHTER TOMORROW

- Based on M10-182mm wafer, best choice for ultra-large power plant
- Advanced module technology delivers superior module efficiency
  - M10 Gallium-Dopped Wafer
  - Smart Soldering
  - 10 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

Auto Bussing & 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

SOLAR PV MODULE
108 HALF CUT MONO PERC CELL
BIFACIAL DUAL GLASS 385-415 W

Premier Energies

ELECTRICAL CHARACTERISTICS(STC)

MODULE TYPE	PE-385HGB	PE-390HGB	PE-395HGB	PE-400HGB	PE-405HGB	PE-410HGB	PE-415HGB
Maximum Power (Pmp)	385	390	395	400	405	410	415
Open Circuit Voltage (Voc)	37.41	37.45	37.49	37.53	37.57	37.61	37.7
Short Circuit Current (Isc)	12.25	12.40	12.54	12.68	12.83	12.97	13.10
Maximum Power Voltage (Vmp)	33.02	33.06	33.10	33.14	33.18	33.22	33.26
Maximum Power Current (Imp)	11.67	11.81	11.94	12.08	12.22	12.35	12.48
Module Efficiency (nm)	19.71	19.97	20.22	20.48	20.74	20.99	21.25
Power Tolerance	(-0,+5W)						
Maximum System Voltage	1500V(UL & IEC)						
Maximum Series Fuse Rating	25 Amp						

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

ELECTRICAL CHARACTERISTICS(NOCT)

MODULE TYPE	PE-385HGB	PE-390HGB	PE-395HGB	PE-400HGB	PE-405HGB	PE-410HGB	PE-415HGB
Maximum Power (Pmp)	283	287	291	294	298	302	305
Open Circuit Voltage (Voc)	34.95	34.99	35.03	35.07	35.10	35.14	35.18
Short Circuit Current (Isc)	9.77	9.88	10.00	10.11	10.23	10.34	10.44
Maximum Power Voltage (Vmp)	30.64	30.68	30.71	30.75	30.79	30.81	30.86
Maximum Power Current (Imp)	9.24	9.35	9.46	9.57	9.68	9.79	9.89
Module Efficiency (nm)	14.50	14.69	14.88	15.07	15.26	15.44	15.63

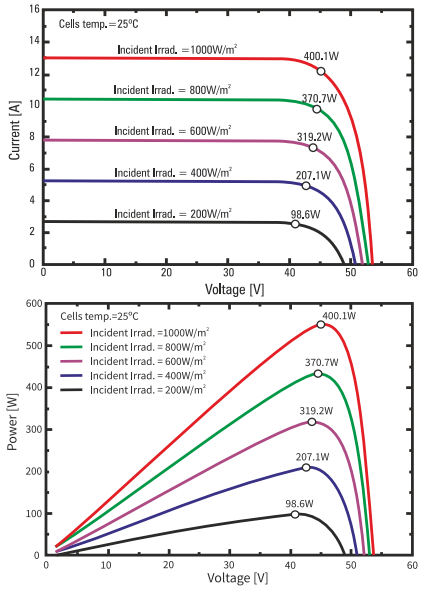
*NOCT- Irradiance 800 W/m2, AM 1.5, Ambient Temperature 25°C and Wind speed 1m/s Measuring Tolerance: ±3%

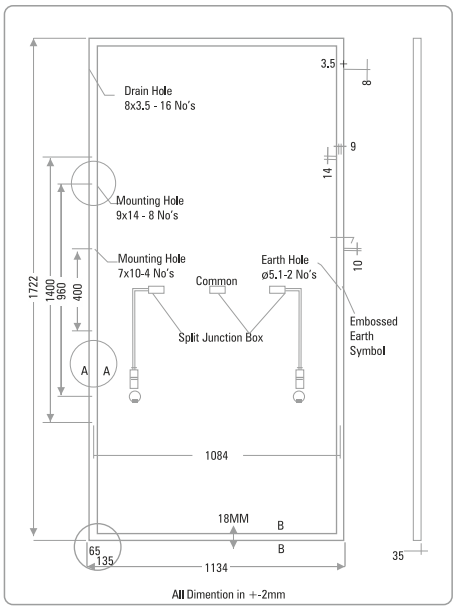
BIFACIAL GAIN (70±10%)		PE-385HGB	PE-390HGB	PE-395HGB	PE-400HGB	PE-405HGB	PE-410HGB	PE-415HGB
10%	Power Pmp	423.5	429.0	434.5	440.0	445.5	451.0	456.0
20%	Power Pmp	462.0	468.0	474.0	480.0	486.0	492.0	498.0
30%	Power Pmp	500.5	507.0	513.5	520.0	526.5	533.0	539.5

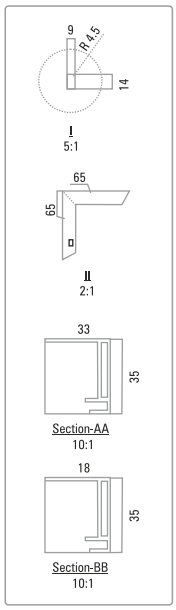
- Bifacial gains depends on the power plant design and albedo of installation site
- Power Bifaciality=Pmax(Rear)/Pmax(Front) and Pmax Front are tested under STC Measuring Tolerance: ±3%

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







MECHANICAL SPECIFICATIONS

External Dimensions	1722(±2mm) x 1134 (±2mm) x 35(±1mm)
Weight	24 (± 3%) Kg
Solar Cells	10 BB, Mono PERC - crystalline 91mm x 182mm
Front Glass	2.0mm ARC Semi Tempered Glass
Rear Cover	2.0mm Heat Strengthened 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 (UL61730) Or Class C (IEC61730)
Output Cable	4.0 mm2 400 mm Length

FRAME PROFILE 35X33MM(LONG) AND 35X18MM(SHORT)

PACKING CONFIGURATION

Container	40'HQ
Pieces per Pallet	31
Pallets per Container	26
Pieces per Container	806

FIRST YEAR DEGRADATION < 2.0%

YEAR 2-30 POWER DEGRADATION < 0.45%

For more details, please contact:
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