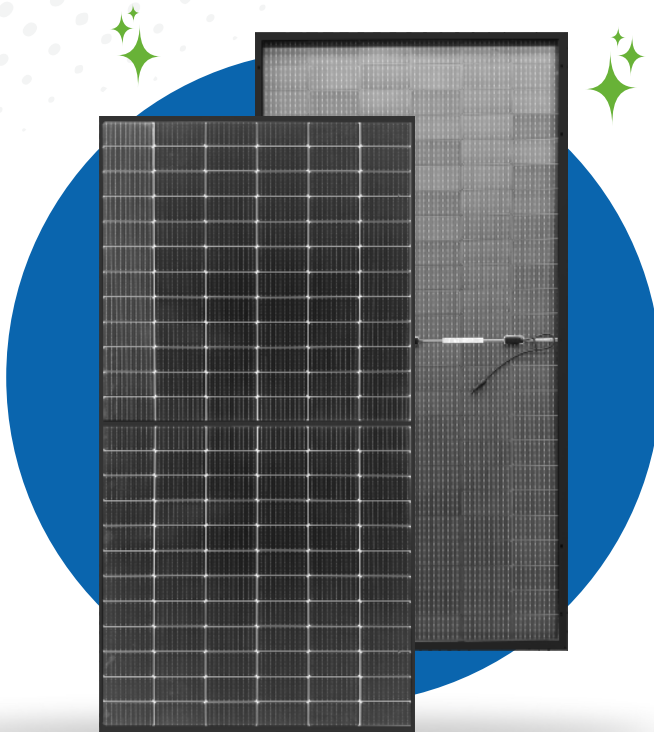




# SOLAR PV MODULE 108 HALF CUT MONO PERC CELL BIFACIAL TRANSPARENT BACKSHEET 385-415 W



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-Doped 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 load (2400 Pascal) and snow load (5400 Pascal)

## IDEAL FOR



Residential



Commercial



Utility



Off-grid

## CERTIFICATION

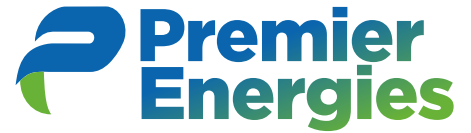
IEC 62804 (PID) | IEC 61701 (Salt Mist) | IEC 61726 (Ammonia) | IEC 62782 (DMLT)  
IEC 61853-1 & 2 (Panfile & IAM) | LID, LETID | IEC 60068 (Sand & Dust) | IEC 61215  
IEC 62759 (Transportation) | CEC, INMETRO, CE | IEC 61730 | UL 61730



# SOLAR PV MODULE

## 108 HALF CUT MONO PERC CELL

### BIFACIAL TRANSPARENT BACKSHEET 385-415 W



#### ELECTRICAL CHARACTERISTICS(STC)

MODULE TYPE	PE-385HB	PE-390HB	PE-395HB	PE-400HB	PE-405HB	PE-410HB	PE-415HB
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	37.65
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/m<sup>2</sup>, Module Temperature 25°C and AM 1.5 Measuring Tolerance: ±3%

#### ELECTRICAL CHARACTERISTICS(NOCT)

MODULE TYPE	PE-385HB	PE-390HB	PE-395HB	PE-400HB	PE-405HB	PE-410HB	PE-415HB
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/m<sup>2</sup>, AM 1.5, Ambient Temperature 25°C and Wind speed 1m/s Measuring Tolerance: ±3%

BIFACIAL GAIN (70±10%)		PE-385HB	PE-390HB	PE-395HB	PE-400HB	PE-405HB	PE-410HB	PE-415HB
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	539.0

• 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%

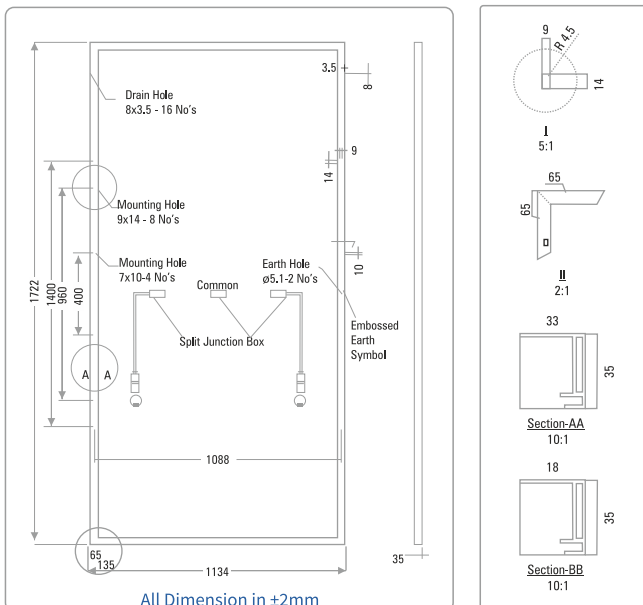
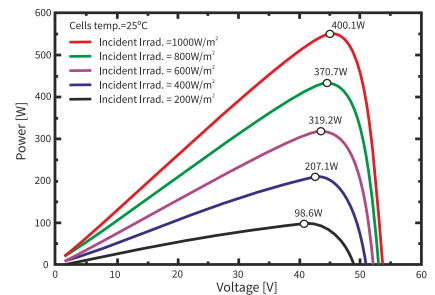
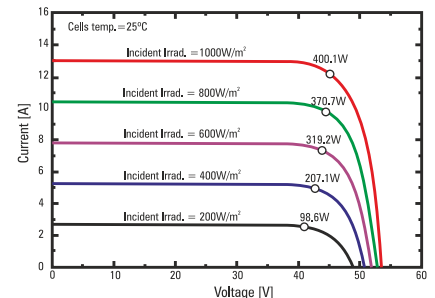
#### TEMPERATURE CHARACTERISTICS

Pmax Temperature Coefficient	-0.35%/°C
Voc Temperature Coefficient	-0.27%/°C
Isc 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	1722(±2mm) x 1134 (±2mm) x 35(±1mm)
Weight	21 (± 3%) Kg
Solar Cells	10 BB, Mono PERC - crystalline 91mm x 182mm
Front Glass	3.2 mm, High Transmission, Low Iron, Tempered Glass
Rear Cover	High Transparent Backsheet
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 4 ( UL61730) Or ClassC (IEC61730)
Output Cable	4,0 mm <sup>2</sup> 400 mm Length

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

#### PACKING CONFIGURATION

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

**FIRST YEAR DEGRADATION**

**< 2.0%**

**YEAR 2-30 POWER DEGRADATION**

**< 0.45%**

For more details, please contact:

**PREMIER ENERGIES GROUP**

sales@premierenergies.com | premierenergies.com

The specification and key features contained in this datasheet may deviate slightly from our actual products due to the on-going innovation and product enhancement, Premier Energies reserves the right to make necessary adjustment to the information described herein at any time without further notice.