

SOLAR PV MODULE

108 HALF CUT PERC CELL

BIFACIAL TRANSPARENT BACKSHEET 385-415 W

Transition to a Brighter Tomorrow



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)

High Performance Guarantee!



LINEAR POWER OUTPUT WARRANTY



PRODUCT WARRANTY

Suitable for



RESIDENTIAL



UTILITY



COMMERCIAL



OFF-GRID

Certification



IEC 61215 | IEC 61730 | IEC 61701 (Salt Mist) | IEC 62716 (Ammonia)

IEC 62782 (DMLT) | IEC 61853-2 (IAM) | LID, LETID

IEC 60068 (Sand & Dust) | IEC 62804 (PID) | CEC, CE | IEC 61730

MADE WITH PREMIER ENERGIES M10 CELLS

M10-182MM WAFER, IDEAL FOR RESIDENTIAL, C & I APPLICATION

AVAILABLE IN ALL BLACK RANGE



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)	36.64	36.72	36.83	36.94	37.03	37.09	37.20
Short Circuit Current (Isc)	13.47	13.59	13.71	13.82	13.92	14.07	14.17
Maximum Power Voltage (Vmp)	30.76	30.88	31.04	31.13	31.25	31.39	31.51
Maximum Power Current (Imp)	12.53	12.64	12.73	12.85	12.96	13.07	13.18
Module Efficiency (nm)	19.72	19.97	20.23	20.48	20.74	21.00	21.25
Power Tolerance	0 to+5W						
Maximum System Voltage	1500V(UL & IEC)						
Maximum Series Fuse Rating	25 Amp						
*STC Irradiance 1000W/m ² , 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)	34.23	34.31	34.41	34.52	34.60	34.66	34.76
Short Circuit Current (Isc)	10.74	10.83	10.93	111.02	11.10	11.22	11.30
Maximum Power Voltage (Vmp)	28.54	28.65	28.80	28.89	29.00	29.13	29.24
Maximum Power Current (Imp)	9.92	10.01	10.09	10.19	10.27	10.35	10.44
Module Efficiency (nm)	14.50	14.69	14.88	15.07	15.26	15.44	15.63
*NOCT- Irradiance 800 W/m ² , AM 1.5, Ambient Temperature 20°C & Wind speed 1m/s				Measuring Tolerance: ±3%			

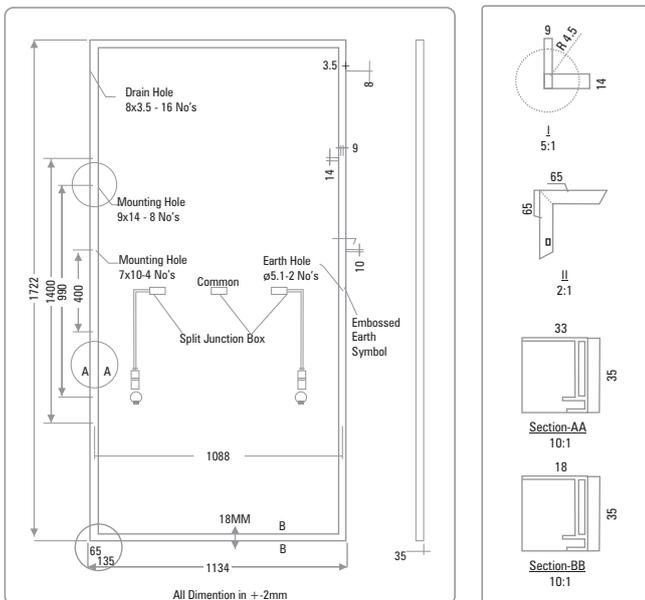
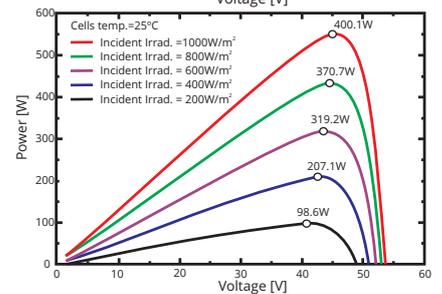
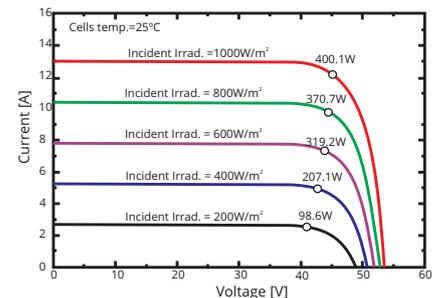
FOR PEIPL, MODEL CODE: PEI-108 - XXXHGB - M10
(WHERE, XXX – 385 to 415 IN STEPS OF 5W)

GAIN		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 & albedo of installation site
 - Power Bifaciality=Pmax(Rear)/Pmax(Front) are tested under STC
- Measuring Tolerance: ±3%

Temperature Characteristics

Pmax Temperature Coefficient Up to	-0.35%/°C
Voc Temperature Coefficient Up to	-0.30%/°C
Isc 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	21 (± 3%) Kg
Solar Cells	10 BB, Mono PERC - crystalline 91mm x 182mm ± 1mm
Front Glass	3.2 mm, High Transmission, Low Iron. Tempered Glass
Rear Cover	High Transparent backsheet & Mesh Black / White
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 (UL 61730) Or Class C (IEC 61730)
Output Cable	4.0 mm ² 400 mm Length

Frame Profile 35x33(Long) & 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%

