



SOLAR PV MODULE

108 HALF CUT PERC CELL

BIFACIAL DUAL GLASS 380-410 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 (Panfile & 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-380HGB	PE-385HGB	PE-390HGB	PE-395HGB	PE-400HGB	PE-405HGB	PE-410HGB
Maximum Power (Pmp)	380	385	390	395	400	405	410
Open Circuit Voltage (Voc)	35.55	36.64	36.72	36.83	36.94	37.03	37.09
Short Circuit Current (Isc)	13.35	13.47	13.59	13.71	13.82	13.92	14.07
Maximum Power Voltage (Vmp)	30.72	30.76	30.88	31.04	31.13	31.25	31.39
Maximum Power Current (Imp)	12.44	12.53	12.64	12.73	12.85	12.96	13.07
Module Efficiency (%)	19.46	19.72	19.97	20.23	20.48	20.74	21.00
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)

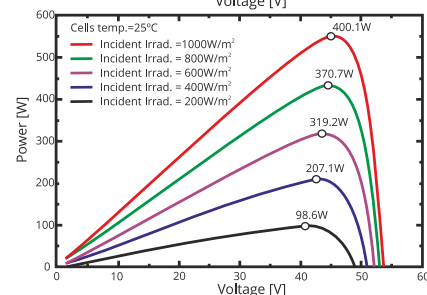
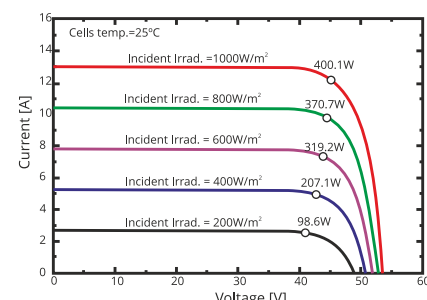
MODULE TYPE	PE-380HGB	PE-385HGB	PE-390HGB	PE-395HGB	PE-400HGB	PE-405HGB	PE-410HGB
Maximum Power (Pmp)	280	283	287	291	294	298	302
Open Circuit Voltage (Voc)	33.22	34.23	34.31	34.41	36.41	34.60	34.66
Short Circuit Current (Isc)	10.64	10.74	10.83	10.93	10.93	11.10	11.22
Maximum Power Voltage (Vmp)	28.51	28.54	28.65	28.80	28.89	29.00	29.13
Maximum Power Current (Imp)	9.81	9.92	10.01	10.09	10.19	10.27	10.35
Module Efficiency (nm)	14.31	14.50	14.69	14.88	15.07	15.26	15.44
*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 – 380 to 410 IN STEPS OF 5W)

GAIN		PE-380HGB	PE-385HGB	PE-390HGB	PE-395HGB	PE-400HGB	PE-405HGB	PE-410HGB
10%	Power Pmp	418.0	423.5	429.0	434.5	440.0	445.5	451.0
20%	Power Pmp	456.0	462.0	468.0	474.0	480.0	486.0	492.0
30%	Power Pmp	494.0	500.5	507.0	513.5	520.0	526.5	533.0
• Bifacial gains depends on the power plant design & albedo of installation site							Measuring Tolerance: ±3%	
• Power Bifaciality= $P_{\max}(\text{Rear})/P_{\max}(\text{Front})$ are tested under STC								

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 Tempertature	-40°C To + 85°C
Nominal Operating Cell Temperature	42 ± 3° C



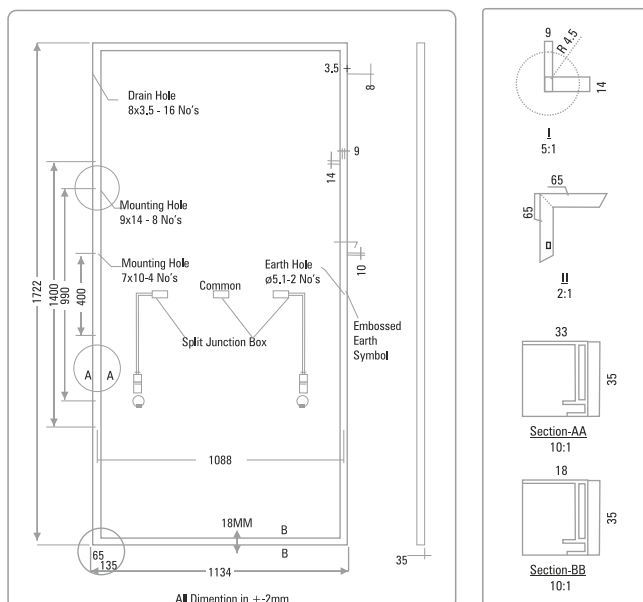
Mechanical Specifications

External Dimensions	1722 (±2mm) x 1134 (±2mm) x 35 (±1mm)
Weight	26 (± 3%) Kg
Solar Cells	10 BB, Mono PERC - crystalline 91mm x 182mm ± 1mm
Front Glass	2.0 mm, ARC Semi Tempered, HS Glass
Rear Cover	2.0 mm, ARC Semi Tempered, 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 39 (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%

