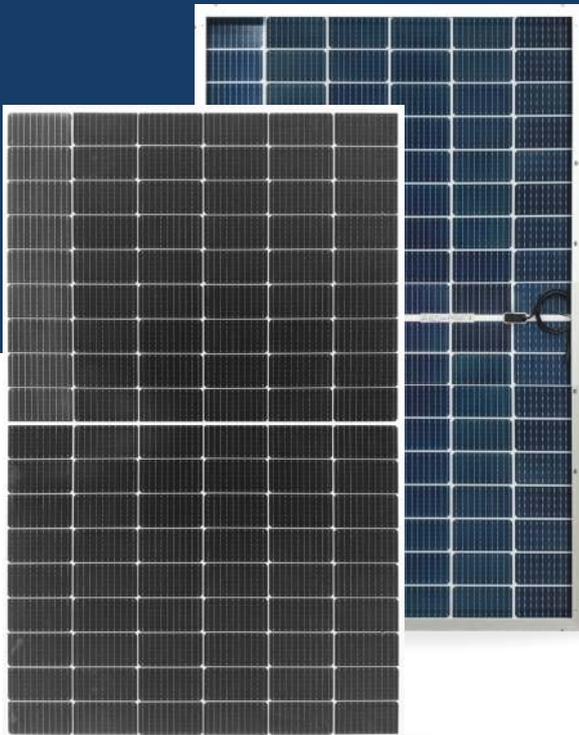


SOLAR PV MODULE

108 HALF CUT TOPCon CELL

BIFACIAL TRANSPARENT BACKSHEET 405-425 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) | UL 61730

MADE WITH PREMIER ENERGIES M10 CELLS

M10-182MM WAFER, IDEAL FOR ULTRA-LARGE POWER PLANT

AVAILABLE IN ALL BLACK RANGE



Electrical Characteristics (STC)

MODULE TYPE	PE-405 THB 108	PE-410 THB 108	PE-415 THB 108	PE-420 THB 108	PE-425 THB 108
	PEI-108-405 THB - M10	PEI-108-410 THB - M10	PEI-108-415 THB - M10	PEI-108-420 THB - M10	PEI-108-425 THB - M10
Maximum Power (Pmp)	405	410	415	420	425
Open Circuit Voltage (Voc)	38.24	38.28	38.32	38.36	38.40
Short Circuit Current (Isc)	12.97	13.11	13.25	13.040	13.55
Maximum Power Voltage (Vmp)	32.81	32.85	32.89	32.93	32.97
Maximum Power Current (Imp)	12.35	12.49	12.62	12.76	12.90
Module Efficiency %	20.74	21.00	21.25	21.51	21.76
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%		

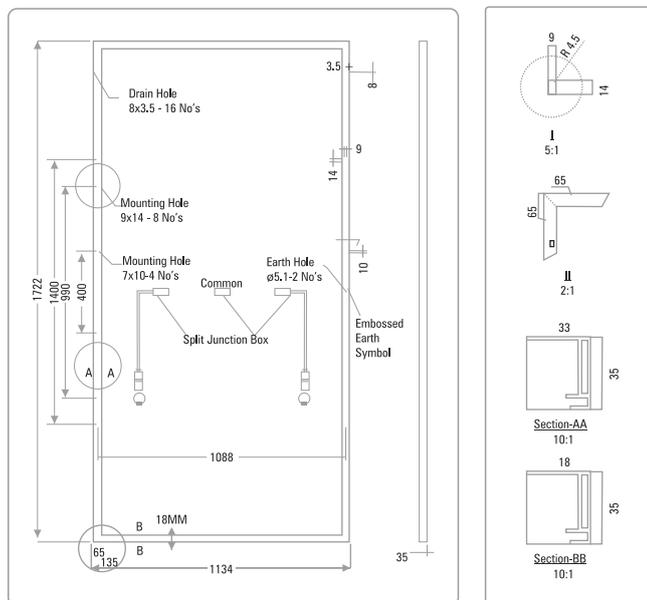
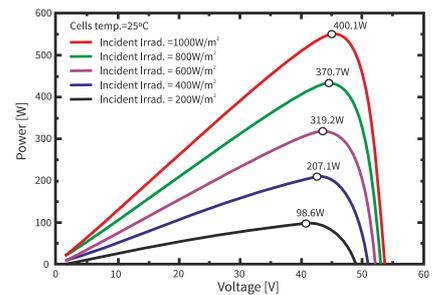
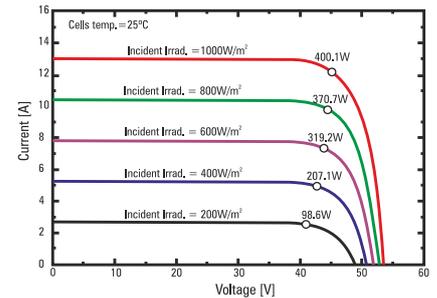
Electrical Characteristics (NOCT)

MODULE TYPE	PE-405 THB 108	PE-410 THB 108	PE-415 THB 108	PE-420 THB 108	PE-425 THB 108
	PEI-108-405 THB - M10	PEI-108-410 THB - M10	PEI-108-415 THB - M10	PEI-108-420 THB - M10	PEI-108-425 THB - M10
Maximum Power (Pmp)	298	302	305	309	313
Open Circuit Voltage (Voc)	35.73	35.77	35.80	35.84	35.88
Short Circuit Current (Isc)	10.34	10.45	10.56	10.68	10.80
Maximum Power Voltage (Vmp)	30.44	30.48	30.52	30.56	30.59
Maximum Power Current (Imp)	9.79	9.89	10.00	10.11	10.22
Module Efficiency %	15.26	15.44	15.63	15.82	16.01
*NOCT- Irradiance 800 W/m ² , AM 1.5, Ambient Temperature 25°C & Wind speed 1m/s			Measuring Tolerance: ±3%		

GAIN		PE-405 THB 108	PE-410 THB 108	PE-415 THB 108	PE-420 THB 108	PE-425 THB 108
		PEI-108-405 THB - M10	PEI-108-410 THB - M10	PEI-108-415 THB - M10	PEI-108-420 THB - M10	PEI-108-425 THB - M10
10%	Power Pmp	445.0	510.0	456.5	462.0	467.5
20%	Power Pmp	486.0	492.0	498.0	504.0	510.0
30%	Power Pmp	526.5	533.0	539.5	546.0	552.5
• Bifacial gains depends on the power plant design & albedo of installation site						Measuring Tolerance: ±3%
• Power Bifaciality=Pmax(Rear)/Pmax(Front) are tested under STC						

Temperature Characteristics

Pmax Temperature Coefficient Up to	-0.30%/°C
Voc Temperature Coefficient Up to	-0.27%/°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	10BB TOPCon 91mm x 182mm ± 1mm
Front Glass	3.2 mm, High Transmission, Low Iron, Tempered Glass
Rear Cover	High Transparent / Black / White 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 (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
< 1.0%

YEAR 2-30 POWER
DEGRADATION
< 0.40%

