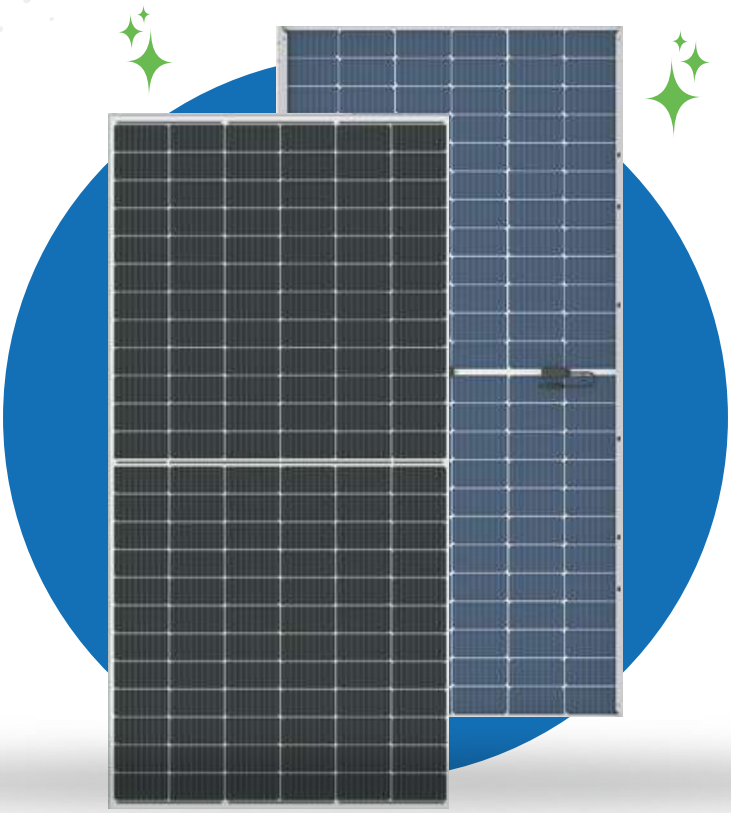
SOLAR PV MODULE
144 HALF CUT CELL 525-550 W
BIFACIAL DUAL GLASS



TRANSITION TO A BRIGHTER TOMORROW

Assembled with high-efficiency multi-busbar PERC cell, the half-cell configuration of the modules offers the advantage of higher power output, better temperature-dependent performance, reduced shading effect on the energy generation, lower risk of hot spot, as well as enhanced tolerance for mechanical loading.

CERTIFICATION

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

UL 61730

SOLAR PV MODULE
144 HALF CUT CELL 525-550 W
BIFACIAL DUAL GLASS

Premier Energies

ELECTRICAL CHARACTERISTICS(STC)

MODULE TYPE	PE-525HGB	PE-530HGB	PE-535HGB	PE-540HGB	PE-545HGB	PE-550HGB
Maximum Power (Pmp)	525	530	535	540	545	550
Open Circuit Voltage (Voc)	49.33	49.43	49.51	49.68	49.76	49.82
Short Circuit Current (Isc)	13.63	13.70	13.82	13.94	13.99	14.06
Maximum Power Voltage (Vmp)	40.93	41.02	41.11	41.21	41.30	41.41
Maximum Power Current (Imp)	12.83	12.93	13.03	13.11	13.21	13.29
Module Efficiency (nm)	20.32	20.52	20.71	20.90	21.10	21.29
Power Tolenance	(-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-525HGB	PE-530HGB	PE-535HGB	PE-540HGB	PE-545HGB	PE-550HGB
Maximum Power (Pmp)	386	390	394	397	401	405
Open Circuit Voltage (Voc)	46.09	46.19	46.26	46.42	49.49	46.55
Short circuit Current (Isc)	10.87	10.92	11.02	11.11	11.15	11.21
Maximum Power Voltage (Vmp)	37.98	38.06	38.15	38.24	38.32	38.42
Maximum Power Current (Imp)	10.17	10.24	10.32	10.39	10.46	10.53
Module Efficiency (nm)	14.95	15.09	15.23	15.38	15.52	15.66

*NOCT- Irradiance 800 W/m2, AM 1.5, Ambient Temperature 20°C and Wind speed 1m/s First Year Degradation

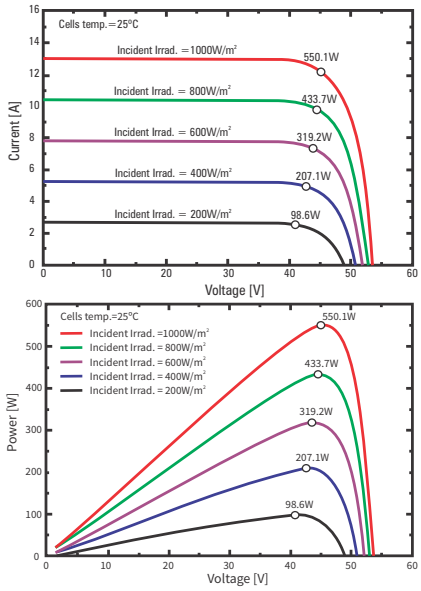
BIFACIAL GAIN (70±10%)		PE-525HGB	PE-530HGB	PE-535HGB	PE-540HGB	PE-545HGB	PE-550HGB
10%	Power Pmp	577.5	583.0	588.5	594.0	599.5	605.0
20%	Power Pmp	630.0	636.0	642.0	648.0	654.0	660.0
30%	Power Pmp	682.5	689.0	695.5	702.0	708.5	715.0

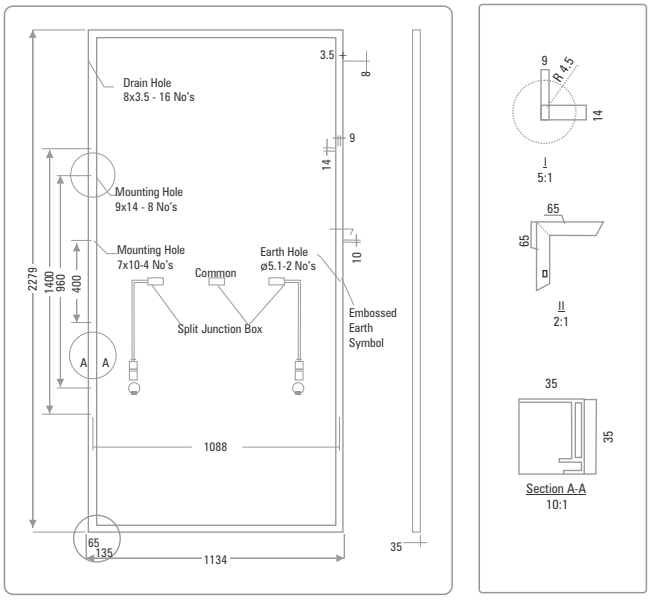
- Bifacial gains depends on the power plant design and albedo of installation site
- Power Bifaciality=Pmax(Rear)/Pmax(Front) and Pmax Front are tested under STC

TEMPERATURE CHARACTERISTICS

Pmax Temperature Coefficient	-0.35%/°C
Voc Temperature Coefficient	-0.27%/°C
Ise Temperature Coefficient	0.04%/°C
Operating Tempertarure	-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	2278(±2m) x 1134 (±2mm) x 35(±1mm)
Weight	34 (± 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
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 (UL 61730) Or Class C (IEC 61730)
Output Cable	4.0 mm² Landscape : (-) 1400 mm and (+) 1400 mm in Length or Customized Length

PACKING CONFIGURATION

Container	20' GP	32' GP	40' HQ
Pieces per Pallet	31	31	31
Pallets per Container	8	16	20
Pieces per container	248	496	620

30 YEAR POWER WARRANTY **12** YEAR PRODUCT WORKMANSHIP WARRANTY

FIRST YEAR DEGRADATION < 2.0% YEAR 2-30 POWER DEGRADATION 0.45%

For more details, please contact:
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