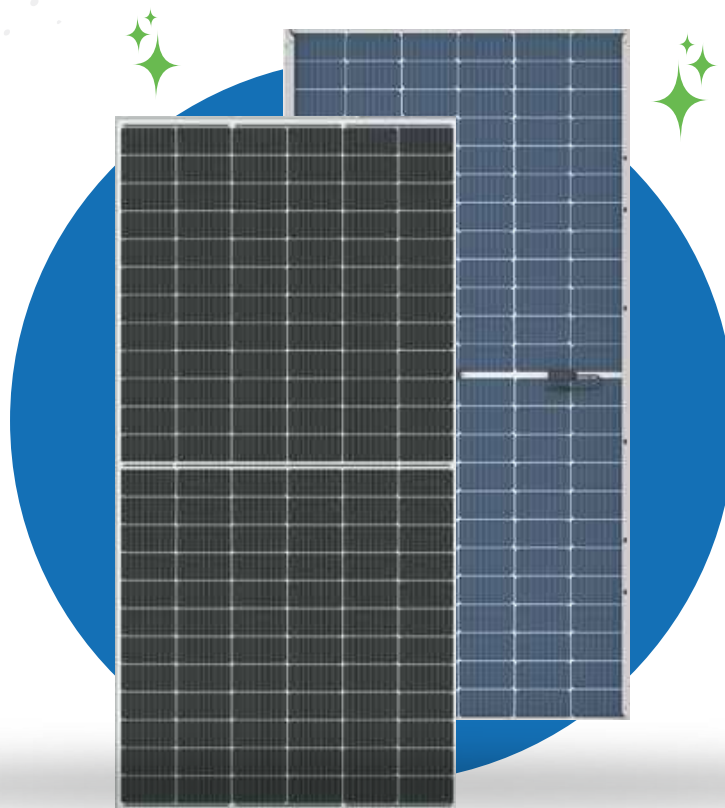




# SOLAR PV MODULE

## 144 HALF CUT CELL 525-550 W

### BIFACIAL TRANSPARENT BACKSHEET



#### 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 61701 ( Salt Mist)

IEC 61726 (Ammonia)

IEC 61853-1 & 2 (Panfile & IAM)

IEC 62782 (DMLT)

IEC 60068 (Sand & Dust)

LID, LETID

IEC 62759 (Transportation)

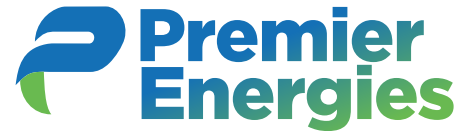
CEC, INMETRO, CE



# SOLAR PV MODULE

## 144 HALF CUT CELL 525-550 W

### BIFACIAL TRANSPARENT BACKSHEET



#### ELECTRICAL CHARACTERISTICS(STC)

MODULE TYPE	PE-525HB	PE-530HB	PE-535HB	PE-540HB	PE-545HB	PE-550HB
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 Tolerance	(-0,+5W)					
Maximum System Voltage	1500V(UL & IEC)					
Maximum Series Fuse Rating	25 Amp					
*STC Irradiance 1000W/m2, Module Temperature25°C and AM 1.5				Measuring Tolerance: ±3%		

#### ELECTRICAL CHARACTERISTICS(NOCT)

MODULE TYPE	PE-525HB	PE-530HB	PE-535HB	PE-540HB	PE-545HB	PE-550HB
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 25°C and Wind speed 1m/s First Year Degradation						

BIFACIAL GAIN (70±10%)		PE-525HB	PE-530HB	PE-535HB	PE-540HB	PE-545HB	PE-550HB
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
<ul style="list-style-type: none"> <li>Bifacial gains depends on the power plant design and albedo of installation site</li> <li>Power Bifaciality = Pmax(Rear)/Pmax(Front) and Pmax Front are tested under STC</li> </ul>							

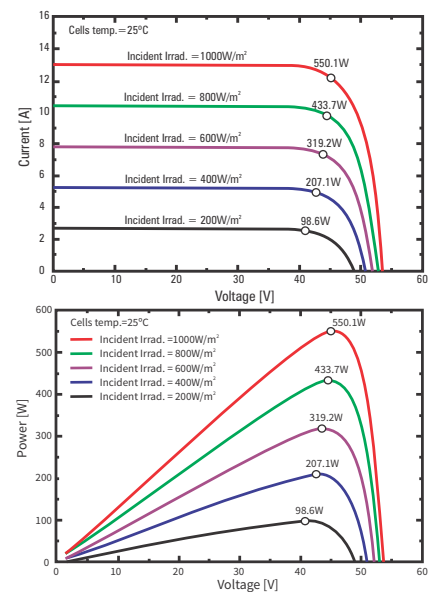
#### TEMPERATURE CHARACTERISTICS

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

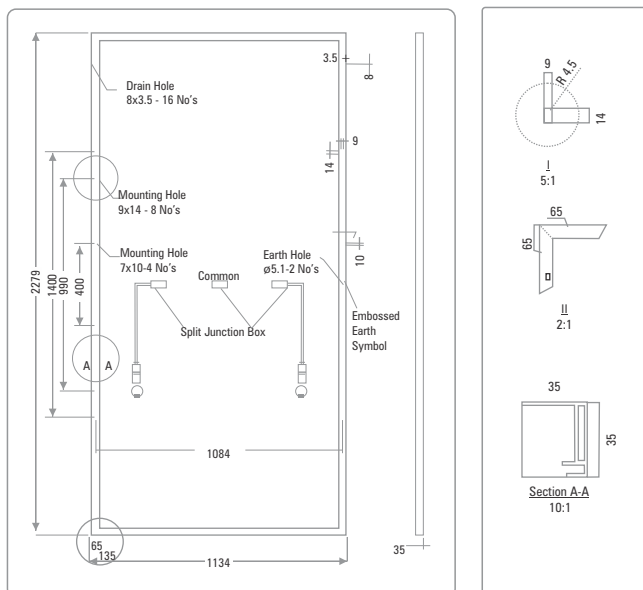


#### MECHANICAL SPECIFICATIONS

External Dimensions	2278(±2mm) 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	40'HQ
Pieces per Pallet	31	31
Pallets per Container	8	20
Pieces per container	248	620



**30** YEAR POWER WARRANTY

**12** YEAR PRODUCT WORKMANSHIP WARRANTY

FIRSTS YEAR DEGRADATION < 2.0%

YEAR 2-30 POWER DEGRADATION 0.45%

For more details, please contact:

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