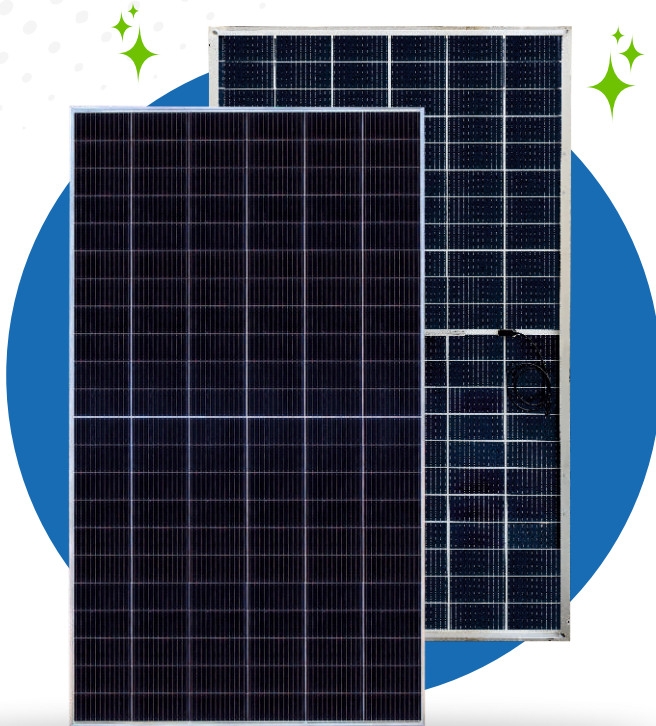




SOLAR PV MODULE (DCR/NON-DCR) 108 HALF CUT MONO PERC CELL 520-550 W BIFACIAL DUAL GLASS



TRANSITION TO A BRIGHTER TOMORROW

- Based on G12-210mm wafer, best choice for ultra-large power plant
- Advanced module technology delivers superior module efficiency
 - G12 Gallium-Doped Wafer
 - Smart Soldering
 - 12 Busbar Half-Cut Cells
- ARC Coated, High Transmission Glass for Higher Energy Yield
- High Module Quality Ensures Long-Term Reliability

HIGH PERFORMANCE GUARANTEE!

30 YEARS WARRANTY FOR LINEAR POWER OUTPUT

12 YEARS PRODUCT WARRANTY



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.



Autobussing & 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)

IDEAL FOR



Residential



Commercial



Utility



Off-grid

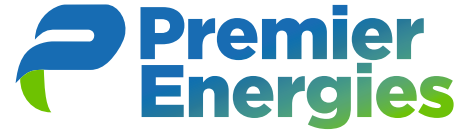
CERTIFICATION

IEC 62804 (PID) | IEC 61701 (Salt Mist) | IEC 61726 (Ammonia) | IEC 62782 (DMLT)
 IEC 61853-1 & 2 (Panfile & IAM) | LID, LETID | IEC 60068 (Sand & Dust) | IEC 61215
 IEC 62759 (Transportation) | CEC, INMETRO, CE | IEC 61730 | UL 61730



SOLAR PV MODULE (DCR/NON-DCR) 108 HALF CUT MONO PERC CELL

BIFACIAL DUAL GLASS 520-550 W



ELECTRICAL CHARACTERISTICS(STC)

MODULE TYPE	PE 520G 12HGB	PE 525G 12HGB	PE 530G 12HGB	PE 535G 12HGB	PE 540G 12HGB	PE 545G 12HGB	PE 550G 12HGB
Maximum Power (Pmp)	520	525	530	535	540	545	550
Open Circuit Voltage (Voc)	36.86	36.94	37.08	37.26	37.44	37.62	37.76
Short Circuit Current (Isc)	17.91	18.03	18.12	18.20	18.27	18.36	18.44
Maximum Power Voltage (Vmp)	30.42	30.51	30.65	30.80	30.97	31.12	31.25
Maximum Power Current (Imp)	17.09	17.21	17.29	17.37	17.44	17.52	17.60
Module Efficiency (nm)	20.36	20.56	20.75	20.95	21.14	21.34	21.54
Power Tolerance	(-0, +5W)						
Maximum System Voltage	1500V(UL & IEC)						
Maximum Series Fuse Rating	30 Amp						

*STC Irradiance 1000W/m², Module Temperature 25°C and AM 1.5 Measuring Tolerance: ±3%

ELECTRICAL CHARACTERISTICS(NOCT)

MODULE TYPE	PE 520G 12HGB	PE 525G 12HGB	PE 530G 12HGB	PE 535G 12HGB	PE 540G 12HGB	PE 545G 12HGB	PE 550G 12HGB
Maximum Power (Pmp)	383	386	390	394	397	401	405
Open Circuit Voltage (Voc)	34.44	34.52	34.65	34.81	34.98	35.15	35.28
Short Circuit Current (Isc)	14.28	14.37	14.44	14.51	14.56	14.64	14.70
Maximum Power Voltage (Vmp)	28.23	28.31	28.44	28.58	28.74	28.88	29.00
Maximum Power Current (Imp)	13.55	13.64	13.71	13.77	13.82	13.88	13.95
Module Efficiency (nm)	14.98	15.12	15.27	15.41	15.55	15.70	15.84

*NOCT- Irradiance 800 W/m², AM 1.5, Ambient Temperature 25°C and Wind speed 1m/s Measuring Tolerance: ±3%

BIFACIAL GAIN (70 ± 10%)		PE 520G 12HGB	PE 525G 12HGB	PE 530G 12HGB	PE 535G 12HGB	PE 540G 12HGB	PE 545G 12HGB	PE 550G 12HGB
10%	Power Pmp	572.0	577.5	583.0	588.5	594.0	599.5	605.0
20%	Power Pmp	624.0	630.0	636.0	642.0	648.0	654.0	660.0
30%	Power Pmp	676.0	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 Measuring Tolerance: ±3%

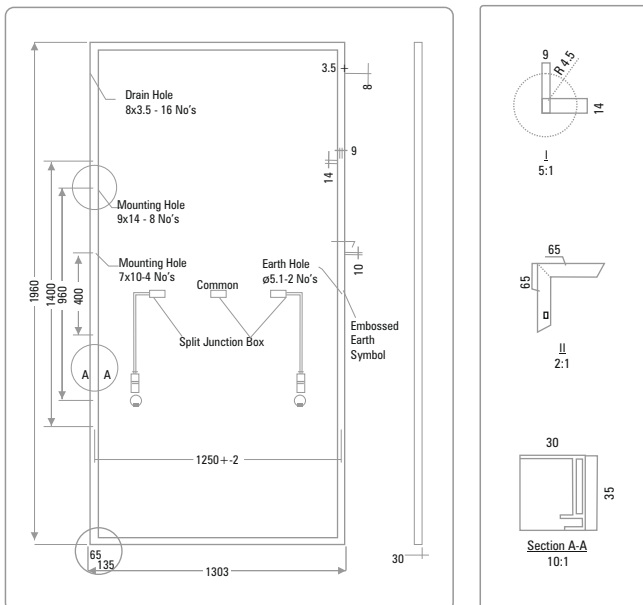
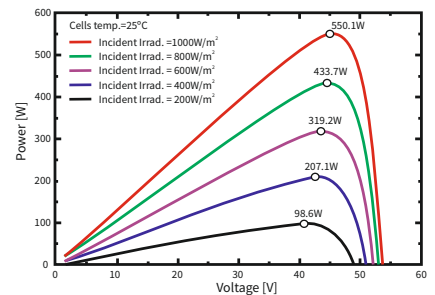
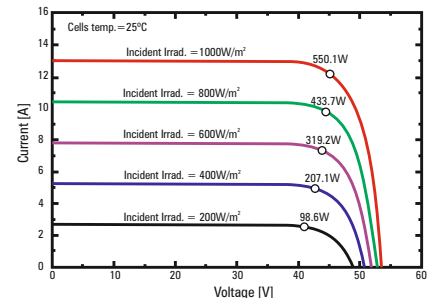
TEMPERATURE CHARACTERISTICS

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	1960 (±2mm) x 1303 (±2mm) x 35 (±1mm)
Weight	30 (± 3%) Kg
Solar Cells	12 BB, Mono PERC - crystalline 105mm x 210mm
Front Glass	2.0mm, Heat Strengthened Glass
Rear Cover	2.0mm, 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 29 (UL 61730) Or Class C (IEC 61730)
Output Cable	4.0 mm ² 400 mm Length

FRAME PROFILE (Long 35X30MM & Short 35x15mm)

PACKING CONFIGURATION

Container	40'HC
Pieces per Pallet	31
Pallets per Container	480
Pieces per Container	16

FIRSTS YEAR DEGRADATION < 2.0%

YEAR 2-30 POWER DEGRADATION < 0.45%

For more details, please contact:

PREMIER ENERGIES GROUP

sales@premierenergies.com | premierenergies.com

The specification and key features contained in this datasheet may deviate slightly from our actual products due to the on-going innovation and product enhancement, Premier Energies reserves the right to make necessary adjustment to the information described herein at any time without further notice.



SOLAR PV MODULE (DCR/NON-DCR) 144 HALF CUT MONO PERC CELL 525-555 W BIFACIAL DUAL GLASS



India's First DCR Module with M10 MonoPERC Cell

TRANSITION TO A BRIGHTER TOMORROW

- Based on M10-182mm wafer, best choice for ultra-large power plant
- Advanced module technology delivers superior module efficiency
 - M10 Gallium-Doped Wafer
 - Smart Soldering
 - 10 Busbar Half-Cut Cells
- ARC Coated, High Transmission Glass for Higher Energy Yield
- High Module Quality Ensures Long-Term Reliability

EXCLUSIVE LINEAR HIGH PERFORMANCE GUARANTEE!

30 YEARS WARRANTY FOR LINEAR POWER OUTPUT

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SMBB TECHNOLOGY

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PID Resistance

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Induction based Improved soldering quality without pollution to module.



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Certified to withstand wind load (2400 Pascal) and snow load (5400 Pascal)

IDEAL FOR



Residential



Commercial



Utility



Off-grid

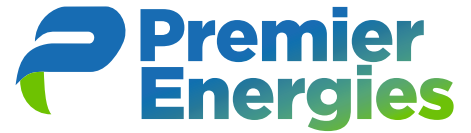
CERTIFICATION

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 IEC 62759 (Transportation) | CEC, INMETRO, CE | IEC 61730 | UL 61730



SOLAR PV MODULE (DCR/NON-DCR) 144 HALF CUT MONO PERC CELL

BIFACIAL DUAL GLASS 525-555 W



ELECTRICAL CHARACTERISTICS(STC)

MODULE TYPE	PE 525HB	PE 530HB	PE 535HB	PE 540HB	PE 545HB	PE 550HB	PE 555HGB
Maximum Power (Pmp)	525	530	535	540	545	550	555
Open Circuit Voltage (Voc)	49.33	49.43	49.51	49.68	49.76	49.82	49.88
Short circuit Current (Isc)	13.63	13.70	13.82	13.94	13.99	14.06	14.12
Maximum Power Voltage (Vmp)	40.93	41.02	41.11	41.21	41.30	41.41	41.41
Maximum Power Current (Imp)	12.83	12.93	13.03	13.11	13.21	13.29	13.40
Module Efficiency (nm)	20.32	20.52	20.71	20.90	21.10	21.29	21.48
Power Tolerance	(-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 525HB	PE 530HB	PE 535HB	PE 540HB	PE 545HB	PE 550HB	PE 555HGB
Maximum Power (Pmp)	386	390	394	397	401	405	408
Open Circuit Voltage (Voc)	46.09	46.19	46.26	46.42	46.49	46.55	46.61
Short circuit Current (Isc)	10.87	10.92	11.02	11.11	11.15	11.21	11.26
Maximum Power Voltage (Vmp)	37.98	38.06	38.15	38.24	38.32	38.42	38.42
Maximum Power Current (Imp)	10.17	10.24	10.32	10.39	10.46	10.53	10.62
Module Efficiency (nm)	14.95	15.09	15.23	15.38	15.52	15.66	15.76

*NOCT- Irradiance 800 W/m², AM 1.5, Ambient Temperature 25°C and Wind speed 1m/s

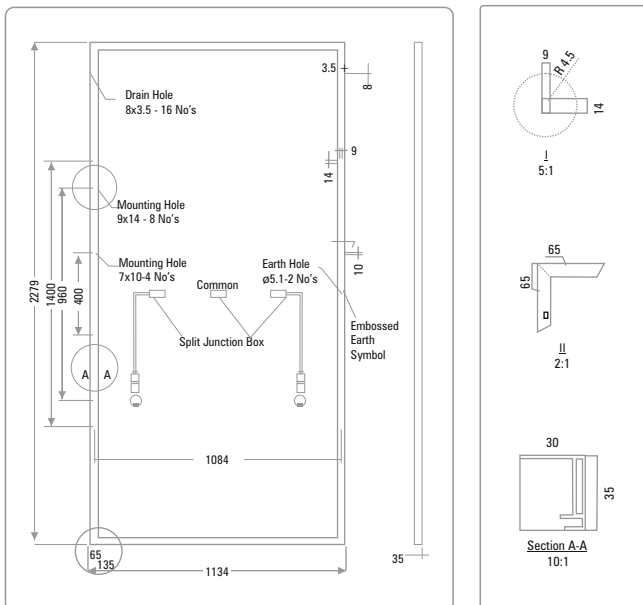
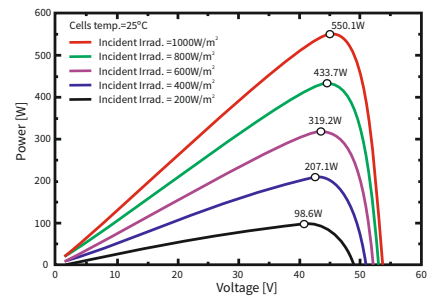
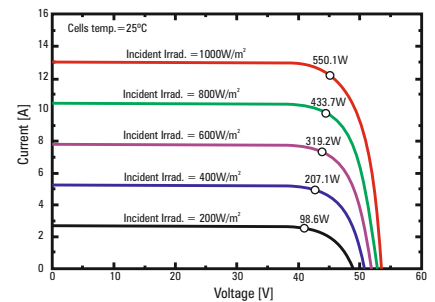
First Year Degradation

BIFACIAL GAIN (70 ± 10%)		PE 525HB	PE 530HB	PE 535HB	PE 540HB	PE 545HB	PE 550HB	PE 555HGB
10%	Power Pmp	577.5	583.0	588.5	594.0	599.5	605.0	610.5
20%	Power Pmp	630.0	636.0	642.0	648.0	654.0	660.0	666
30%	Power Pmp	682.5	689.0	695.5	702.0	708.5	715.0	666

- 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
Isc Temperature Coefficient	0.04%/°C
Operating Temperature	-40°C To + 85°C
Nominal Operating Cell Temperature	42 ± 3° C



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 (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 29 (UL 61730) Or Class C (IEC 61730)
Output Cable	4.0 mm ² 400 mm Length

FRAME PROFILE 35X30MM

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

FIRSTS YEAR DEGRADATION < 2.0%

YEAR 2-30 POWER DEGRADATION < 0.45%

For more details, please contact:

PREMIER ENERGIES GROUP

sales@premierenergies.com | premierenergies.com

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