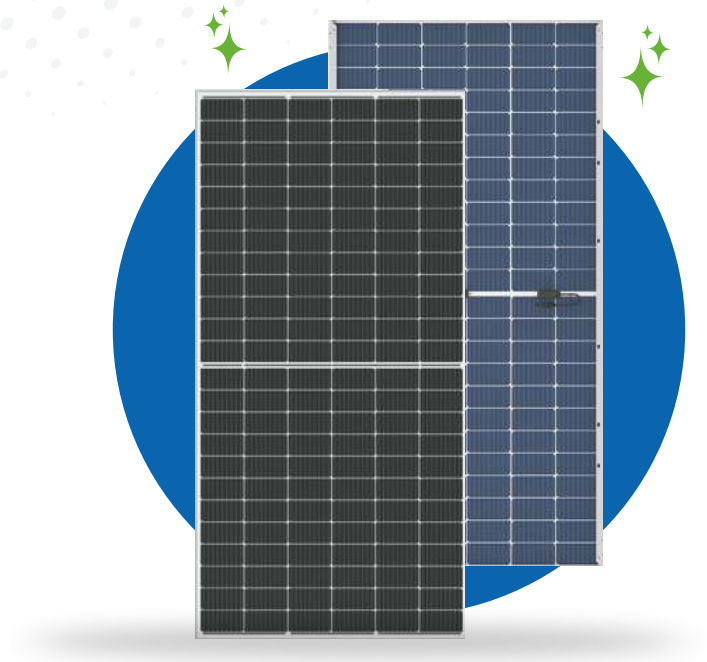
SOLAR PV MODULE (DCR/NON-DCR)
144 HALF CUT MONO PERC CELL 525-555 W

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-Dopped 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

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 lead (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

India's Second Largest Integrated Solar PV Cell and Module Manufacturer | Available in All Black Range

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

BIFACIAL DUAL GLASS 525-555 W

Premier Energies

ELECTRICAL CHARACTERISTICS(STC)

MODULE TYPE	PE 525HGB	PE 530HGB	PE 535HGB	PE 540HGB	PE 545HGB	PE 550HGB	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 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	PE 555HGB
Maximum Power (Pmp)	386	390	394	397	401	405	408
Open Circuit Voltage (Voc)	46.09	46.19	46.26	46.42	49.49	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

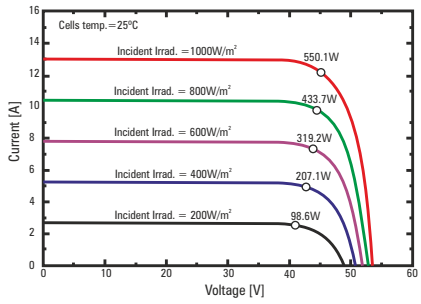
*NOCT- Irradiance 800 W/m2, AM 1.5, Ambient Temperature 25°C and Wind speed 1m/s First Year Degradation

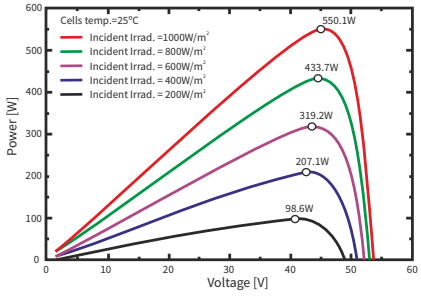
BIFACIAL GAIN (70±10%)		PE 525HGB	PE 530HGB	PE 535HGB	PE 540HGB	PE 545HGB	PE 550HGB	PE 555HGB
10%	Power Pmp	577.5	583.0	588.5	594.0	599.5	605.0	610.5
20%	Power Pmp	630.0	636.0	642.0	648.0	654.0	660.0	666
30%	Power Pmp	682.5	689.0	695.5	702.0	708.5	715.0	721.5

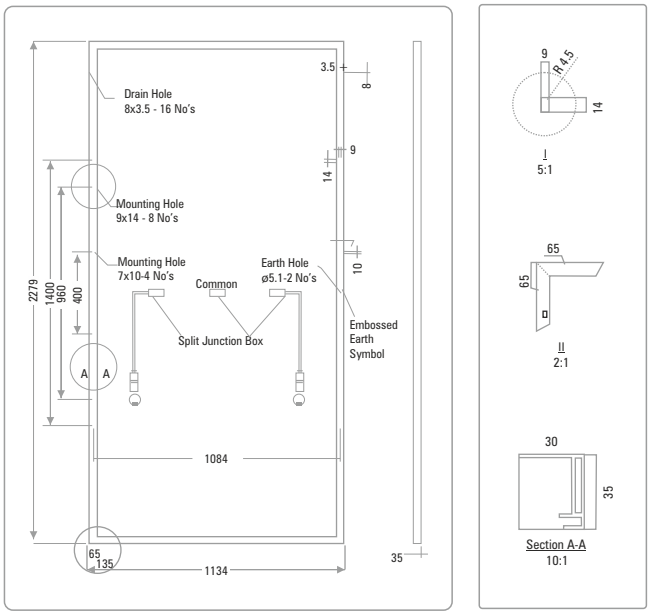
- Bifacial gains depends on the power plant design and albedo of installation site
- Power Bifaciality=Pmax(Rear)/Pmax(Front) and Pmax Front are tested under STC

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







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 mm2 400 mm Length

FRAME PROFILE (Long 35X30MM & Short 35x15mm)

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:
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