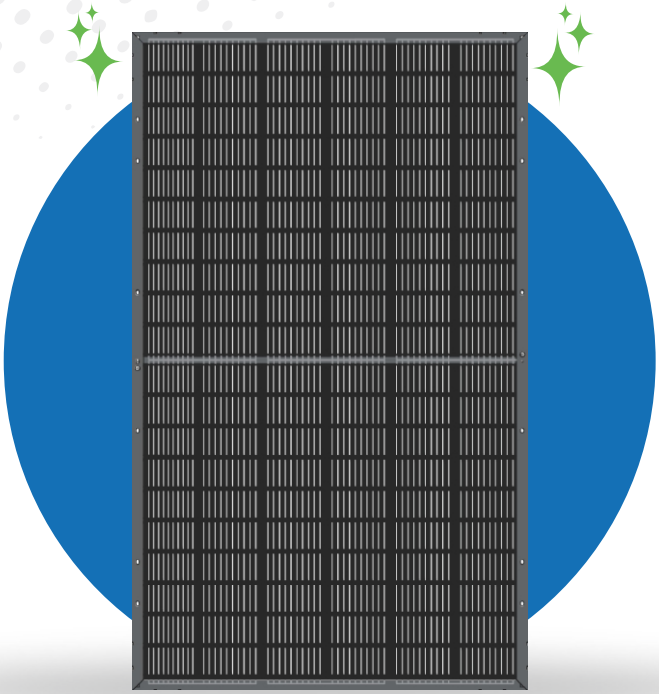
SOLAR PV MODULE (DCR/NON-DCR)
120 HALF CUT MONO PERC CELL

MONO FACIAL 420-450 W



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

HIGH PERFORMANCE GUARANTEE!

25 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

Auto Bussing & 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
120 HALF CUT MONO PERC CELL

MONOFACIAL 420-450 W

Premier Energies

ELECTRICAL CHARACTERISTICS(STC)

MODULE TYPE	PE-420HM	PE-425HM	PE-430HM	PE-435HM	PE-440HM	PE-445HM	PE-450HM
Maximum Power (Pmp)	420	425	430	435	440	445	450
Open Circuit Voltage (Voc)	40.71	40.75	40.79	40.83	40.87	40.91	40.95
Short Circuit Current (Isc)	13.03	13.17	13.31	13.45	13.59	13.73	13.86
Maximum Power Voltage (Vmp)	34.33	34.37	34.41	34.45	34.49	34.53	34.57
Maximum Power Current (Imp)	12.23	12.37	12.5	12.63	12.76	12.89	13.02
Module Efficiency (nm)	19.41	19.64	19.87	20.10	20.34	20.57	20.80
Power Tolerance	(-0,+5W)						
Maximum System Voltage	1500						
Maximum Series Fuse Rating	25A						

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

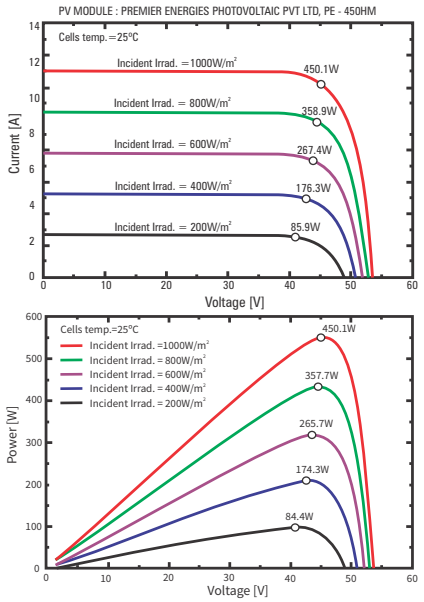
ELECTRICAL CHARACTERISTICS(NOCT)

MODULE TYPE	PE-420HM	PE-425HM	PE-430HM	PE-435HM	PE-440HM	PE-445HM	PE-450HM
Maximum Power (Pmp)	309	313	316	320	324	327	331
Open Circuit Voltage (Voc)	38.04	38.08	38.11	38.15	38.19	38.22	38.26
Short Circuit Current (Isc)	10.39	10.50	10.61	10.72	10.83	10.95	11.05
Maximum Power Voltage (Vmp)	31.86	31.89	31.93	31.97	32.00	32.04	32.08
Maximum Power Current (Imp)	9.70	9.80	9.91	10.01	10.11	10.22	10.32
Module Efficiency (nm)	14.28	14.45	14.62	14.79	14.96	15.13	15.30

*NOCT- Irradiance 800 W/m2, AM 1.5, Ambient Temperature 20ºC and Wind speed 1m/s Test Uncertainity for Pmp: ±3%

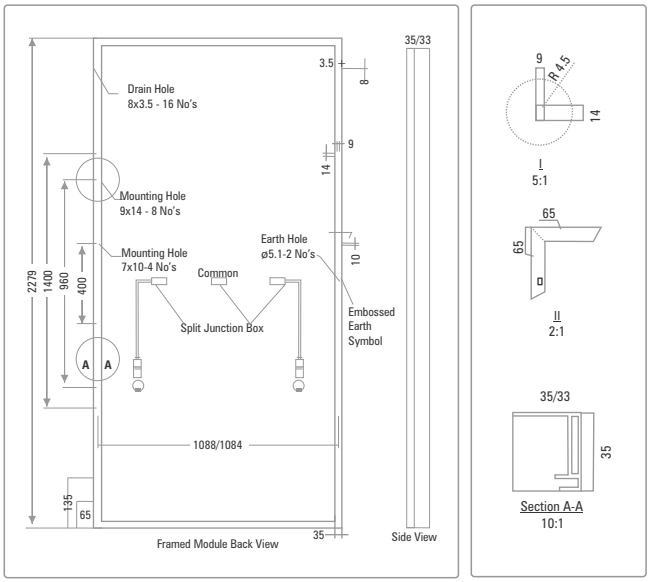
TEMPERATURE CHARACTERISTICS

Pmax Temperature Coefficient	-0.35%/ºC
Voc Temperature Coefficient	-0.3%/ºC
Ise Temperature Coefficient	0.05%/ºC
Operating Tempertarure	-40ºC To + 85ºC
Nominal Operating Cell Temperature	42 ± 2º C



MECHANICAL SPECIFICATIONS

External Dimensions	1908 X 1134 X 35mm
Weight	23Kg
Solar Cells	Mono PERC - crystalline 91mm X 182mm
Front Glass	3.2 mm, High Transmission, Low Iron, Tempered Glass
Frame	**Silver/Black** Anodized Aluminium Alloy
Junction Box	3 Split, IP 68 Rated
Connector	Mc4 Compatible
Mechanical Load	5400 Pa For Snow Load, 2400 Pa Wind Load
Output Cable	4.0 mm² 400 mm Length



PACKING CONFIGURATION

Container	20' GP	40'GP
Pieces per Pallet	31	31
Pallets per Container	8	18
Pieces per Container	248	500

FIRST YEAR DEGRADATION < 2.0%

YEAR 2-25 POWER DEGRADATION < 0.55%

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.