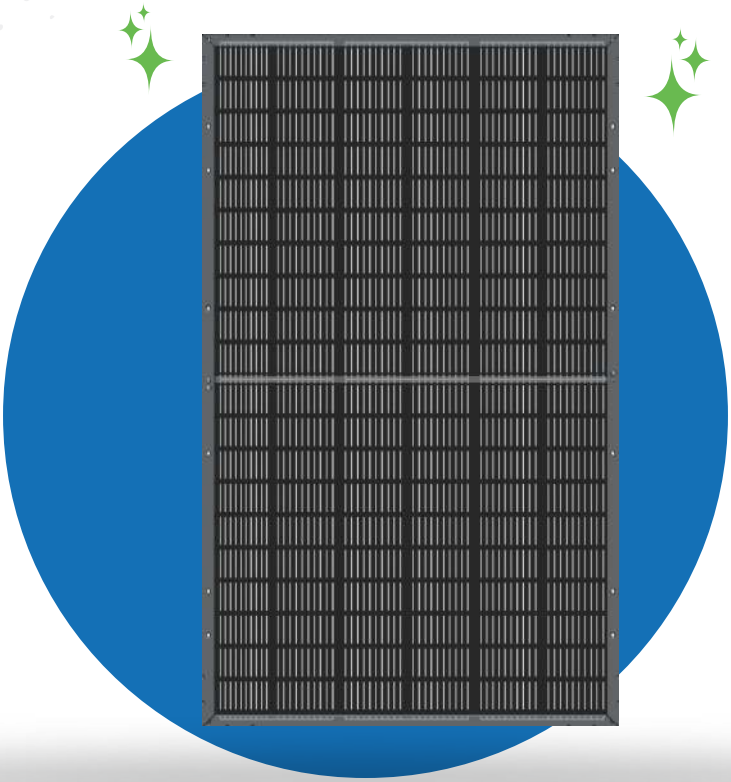
SOLAR PV MODULE
120 SOLAR CELL MONO PERC 420-450 W



TRANSITION TO A BRIGHTER TOMORROW

Assembled with high-eflciency multi-busbar PERC cells, 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 hotspot, 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

SOLAR PV MODULE
120 SOLAR CELL 420-450 W
MONO PERC

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 Tolenance	(-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%

PACKING CONFIGURATION

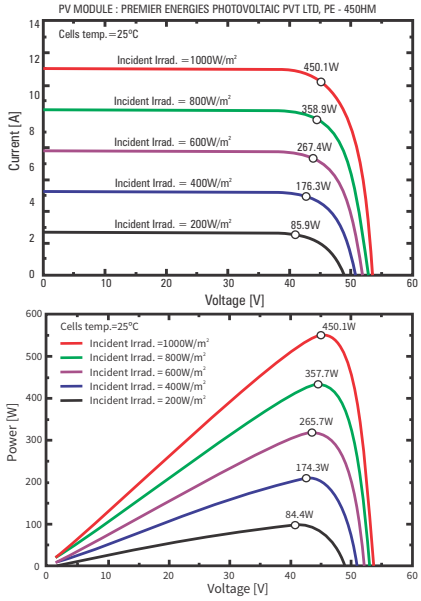
Container	20' GP	40'GP
Pieces per Pallet	31	31
Pallets per Container	8	18
Pieces per container	248	500

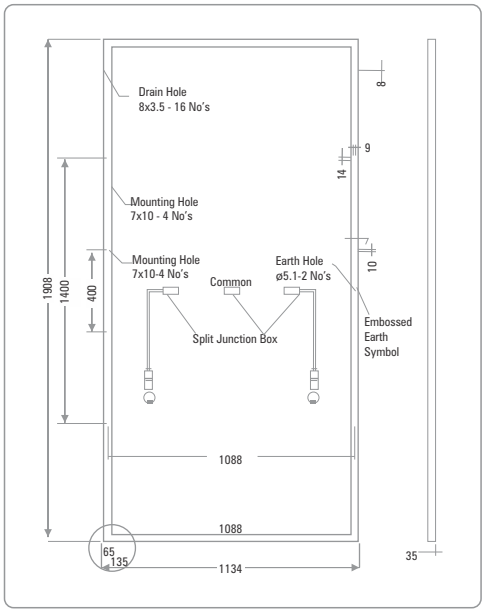
FIRST YEAR DEGRADATION	< 2.0%
YEAR 2-25 POWER DEGRADATION	0.55%

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

Product Certificates*
IEC 61215, 61730/ INMETRO
IEC 61701/IEC 62716/IEC 60068-2-68





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 mm^2 Portrait : (-)350mmand (+)160mminLength Landscape : (-)1400 mm and (+)1400 mm in Length or Customized Length

EXCLUSIVE LINEAR HIGH PERFORMANCE GUARANTEE!

25 YEAR POWER WARRANTY | **12** YEAR PRODUCT WORKMANSHIP WARRANTY

*** Available in All Black Range**

For more details, please contact:
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