



SOLAR PV DCR MODULE

132 HALF CUT MONO PERC CELL

MONO FACIAL 490-510 W

Transition to a Brighter Tomorrow



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 load (2400 Pascal) and snow load (5400 Pascal)

High Performance Guarantee!



LINEAR POWER OUTPUT WARRANTY



PRODUCT WARRANTY

Suitable for



RESIDENTIAL



UTILITY



COMMERCIAL



OFF-GRID

Certification



IEC 62804 (PID) | IEC 61701 (Salt Mist) | IEC 61726 (Ammonia)

CE | LID, LETID | IEC 60068 (Sand & Dust) | IEC 61215 | IEC 61730

UL 61730

MADE WITH PREMIER ENERGIES M10 CELLS

M10-182MM WAFER, IDEAL FOR ULTRA-LARGE POWER PLANT

AVAILABLE IN ALL BLACK RANGE



Electrical Characteristics (STC)

MODULE TYPE	PE-490HM	PE-495HM	PE-500HM	PE-505HM	PE-510HM
Maximum Power (Pmp)	490	495	500	505	510
Open Circuit Voltage (Voc)	45.32	45.36	45.7	45.9	46.1
Short Circuit Current (Isc)	13.57	13.69	13.72	13.82	13.92
Maximum Power Voltage (Vmp)	38.46	38.5	38.55	38.58	38.62
Maximum Power Current (Imp)	12.74	12.86	12.97	13.09	13.21
Module Efficiency %	20.64	20.86	21.07	21.28	21.49
Power Tolerance	0 to+5W				
Maximum System Voltage	1500				
Maximum Series Fuse Rating	25 A				

*STC Irradiance 1000W/m², Module Temperature 25°C and AM 1.5

Test Uncertainty: ±3%

*No Negative Power Tolerance in Nominal Power

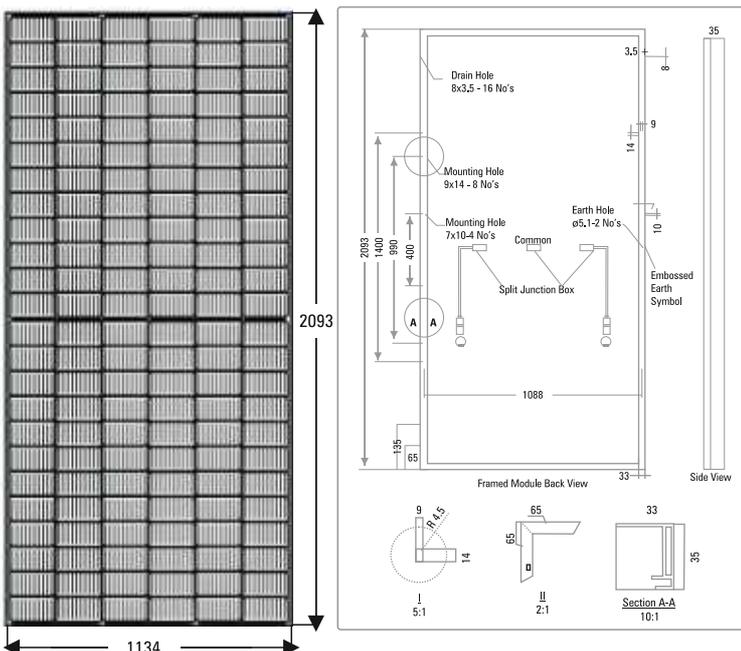
Electrical Characteristics (NOCT)

MODULE TYPE	PE-490HM	PE-495HM	PE-500HM	PE-505HM	PE-510HM
Maximum Power (Pmp)	360	364	368	371	375
Open Circuit Voltage (Voc)	42.35	42.38	42.70	42.89	43.07
Short Circuit Current (Isc)	10.82	10.92	10.94	11.02	11.10
Maximum Power Voltage (Vmp)	35.69	35.72	35.77	36.80	35.84
Maximum Power Current (Imp)	10.10	10.19	10.28	10.30	10.47
Module Efficiency %	15.19	15.34	15.50	15.65	15.81

*NOCT- Irradiance 800 W/m², AM 1.5, Ambient Temperature 20°C & Wind speed 1m/s

Test Uncertainty: ±3%

* No Negative Power Tolerance in Nominal Power

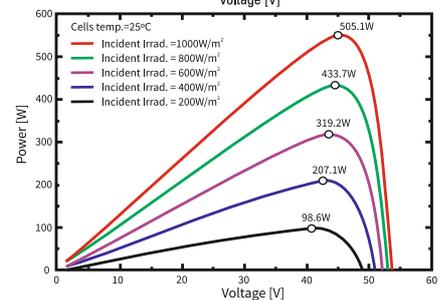
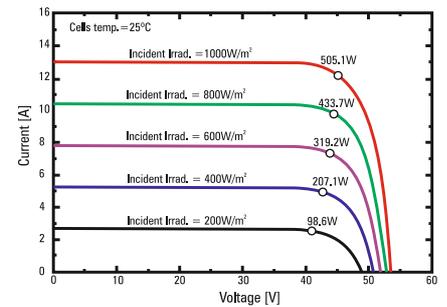


FIRST YEAR
DEGRADATION
< 2.0%

YEAR 2-30 POWER
DEGRADATION
< 0.55%

Temperature Characteristics

Pmax Temperature Coefficient Up to	-0.35%/°C
Voc Temperature Coefficient Up to	-0.3%/°C
Isc Temperature Coefficient	0.06%/°C
Operating Temperature	-40°C To + 85°C
Nominal Operating Cell Temperature	45 ± 2° C



Mechanical Specifications

External Dimensions	2093(±2mm) x 1134 (±2mm) x 35(±1mm)
Weight	27 Kg
Solar Cells	Mono PERC-Crystalline 91mm x 182mm
Front Glass	3.2 mm, High Transmission, Low Iron, Tempered 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
Output Cable	4.0 mm ² 400 mm Length

Frame Profile 35x33 (Long) And 35x18mm (Short) Anodization>15 Micron

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

