

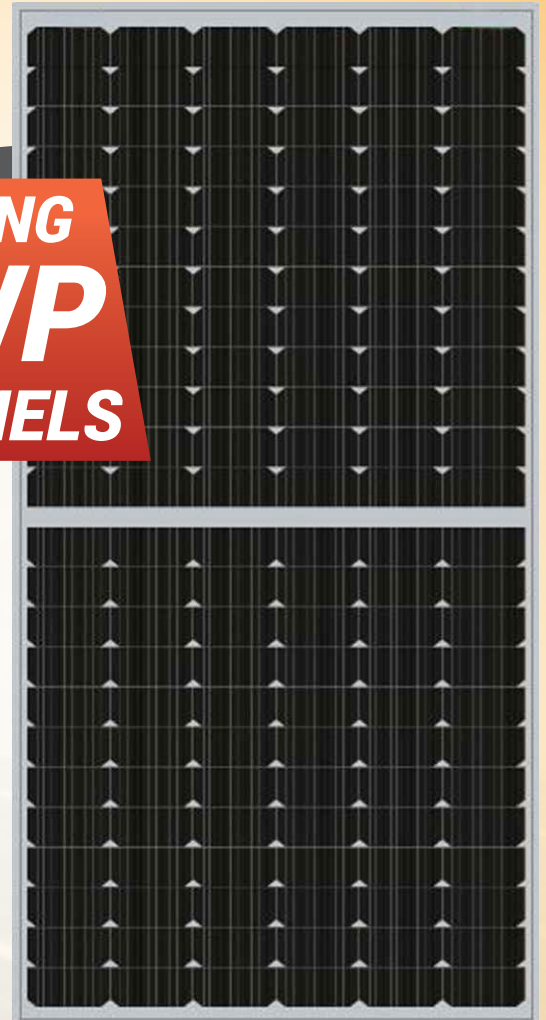


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**550 WP**  
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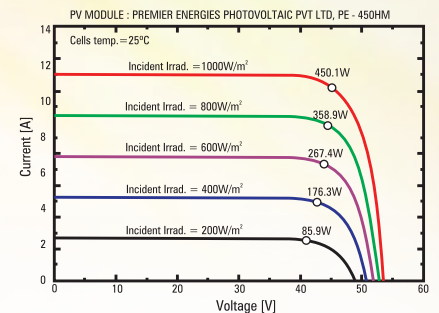
# ABHISHEK SOLAR INDUSTRIES PVT. LTD.

## SOLAR PV MODULE - 144 HALF CUT MONO PERC CELL RANGE : 500 - 550 WP

### ELECTRICAL CHARACTERISTICS (STC)

Module Type	AS500 M144	AS505 M144	AS510 M144	AS515 M144	AS520 M144	AS525 M144	AS530 M144	AS535 M144	AS540 M144	AS545 M144	AS550 M144
Maximum Power (Pmax)	500	505	510	515	520	525	530	535	540	545	550
Maximum Voltage (Vmp)	41.38	41.47	41.6	41.7	41.78	41.87	41.95	42	42.07	42.1	42.13
Maximum Current (Imp)	12.09	12.18	12.27	12.36	12.45	12.54	12.64	12.74	12.85	12.96	13.07
Open Circuit Voltage (Voc)	49.05	49.1	49.14	49.2	49.25	49.28	49.32	49.36	49.41	49.47	49.52
Open Circuit Current (Isc)	12.89	12.98	13.07	13.16	13.25	13.34	13.44	13.54	13.65	13.75	13.85
Module Efficiency (%)	19.36	19.54	19.75	19.94	20.13	20.32	20.52	20.7	20.92	21.11	21.31

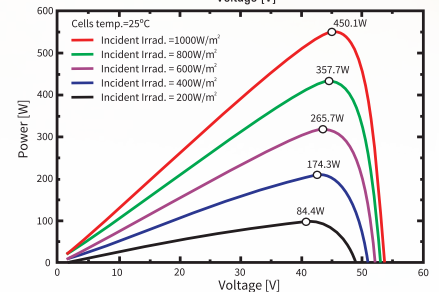
STC : Irradiance 1000W/m<sup>2</sup>, 25°C Cell Temperature and AM 1.5



### ELECTRICAL CHARACTERISTICS (NOCT)

Module Type	AS500 M144	AS505 M144	AS510 M144	AS515 M144	AS520 M144	AS525 M144	AS530 M144	AS535 M144	AS540 M144	AS545 M144	AS550 M144
Maximum Power (Pmax)	367	371	375	379	382	386	390	394	398	402	406
Maximum Voltage (Vmp)	38.35	38.4	38.45	38.5	38.54	38.58	38.63	38.67	38.71	38.75	38.79
Maximum Current (Imp)	9.59	9.68	9.77	9.85	9.93	10.02	10.11	10.2	10.29	10.8	10.47
Open Circuit Voltage (Voc)	45.4	45.5	45.6	45.7	45.8	45.9	46	46.1	46.2	46.3	46.4
Open Circuit Current (Isc)	10.38	10.46	10.53	10.6	10.67	10.75	10.83	10.91	10.98	11.06	11.13
Module Efficiency (%)	14.2	14.36	14.51	14.66	14.78	14.94	15.09	15.25	15.4	15.55	18.71

NOCT : Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C and Wind Speed 1m/s

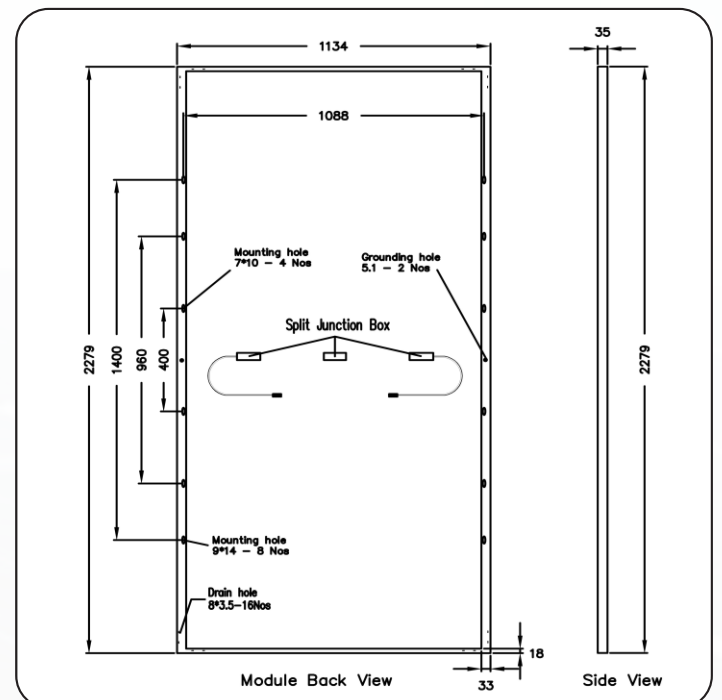


### MODULE MECHANICAL DATA

Module Dimensions	2279mm(L) X 1134mm(W) X 35mm(H)
Weight	29 Kg
Solar Cell Type	Mono Perc - 91mm X 182mm
Front glass	3.2mm, Low Iron, High Transmission, Tempered Glass, ARC Coated
Frame	Anodized aluminium Frame
Junction Box	IP 68 Split Junction Box
Cable	500 mm Length cable, 4mm <sup>2</sup>
Connector	Mc4 Compatible

### TEMPERATURE CHARACTERISTICS

Current-temperature coefficient at short circuit, %/°C:	0.05
Voltage-temperature coefficient at open circuit, %/°C:	-0.31
Power-temperature coefficient at maximum power, %/°C:	-0.35
Nominal operating cell temperature (NOCT), °C:	45±2°C
Maximum Series Fuse Ratings	25A
Temperature Range	-40°C to 85°C
Maximum System Voltage	1500 V



10 YEARS PRODUCT WARRANTY

25 YEARS WARRANTY FOR LINEAR OUTPUT