

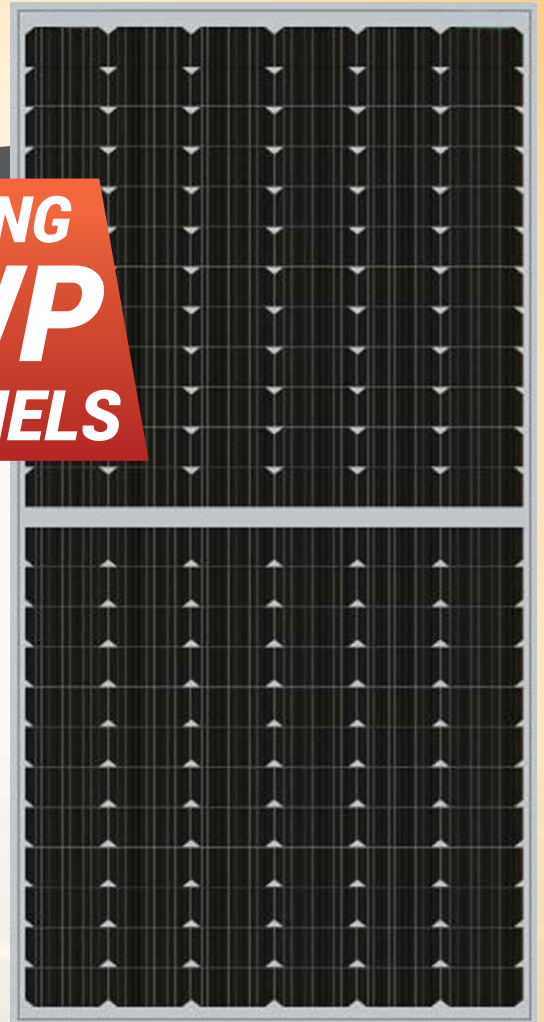


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**ABHISHEK SOLAR INDUSTRIES PVT. LTD.**

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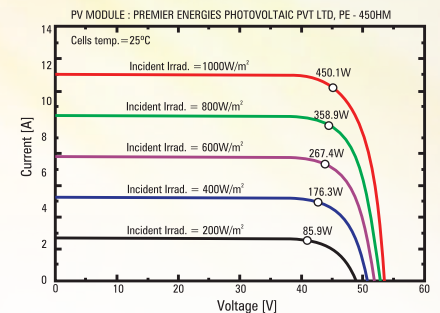
# ABHISHEK SOLAR INDUSTRIES PVT. LTD.

## SOLAR PV MODULE - 120 HALF CUT MONO PERC CELL RANGE : 405 - 450 WP

### ELECTRICAL CHARACTERISTICS (STC)

Module Type	AS405 M120	AS410 M120	AS415 M120	AS420 M120	AS425 M120	AS430 M120	AS435 M120	AS440 M120	AS445 M120	AS450 M120
Maximum Power (Pmax)	405	410	415	420	425	430	435	440	445	450
Maximum Voltage (Vmp)	34.25	34.3	34.35	34.4	34.45	34.5	34.55	34.6	34.64	34.68
Maximum Current (Imp)	11.83	11.96	12.1	12.22	12.34	12.47	12.6	12.72	12.85	12.98
Open Circuit Voltage (Voc)	40.61	40.66	40.69	40.72	40.75	40.78	40.82	40.85	40.89	40.93
Open Circuit Current (Isc)	12.64	12.77	12.9	13.03	13.15	13.29	13.42	13.55	13.68	13.81
Module Efficiency (%)	18.72	18.95	19.2	19.42	19.64	19.87	20.11	20.33	20.56	20.79

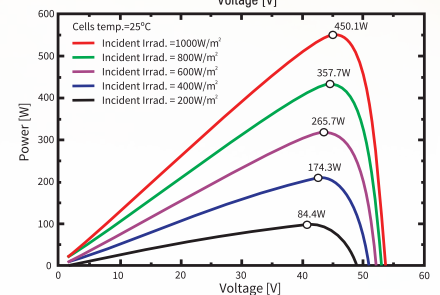
STC : Irradiance 1000W/m<sup>2</sup>, 25°C Cell Temperature and AM 1.5



### ELECTRICAL CHARACTERISTICS (NOCT)

Module Type	AS405 M120	AS410 M120	AS415 M120	AS420 M120	AS425 M120	AS430 M120	AS435 M120	AS440 M120	AS445 M120	AS450 M120
Maximum Power (Pmax)	298	301	304	307	311	315	319	322	326	330
Maximum Voltage (Vmp)	31.22	31.28	31.34	31.4	31.56	31.62	31.71	31.78	31.88	31.01
Maximum Current (Imp)	9.55	9.63	9.7	9.78	9.88	9.97	10.06	10.15	10.25	10.34
Open Circuit Voltage (Voc)	37.8	37.85	37.9	37.95	38.02	38.08	38.13	38.2	38.28	38.36
Open Circuit Current (Isc)	10.2	10.29	10.37	10.45	10.55	10.66	10.77	10.86	10.95	11.04
Module Efficiency (%)	13.77	13.9	14.04	14.18	14.37	14.55	14.74	14.87	15.06	15.24

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

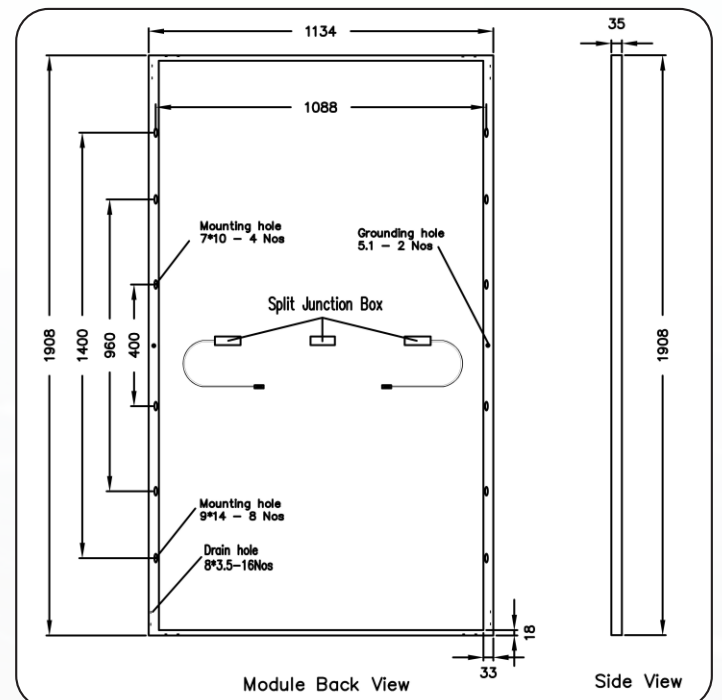


### MODULE MECHANICAL DATA

Module Dimensions	1908mm(L) X 1134mm(W) X 35mm(H)
Weight	23 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 Jubnction 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