

M6 MBB HALF CELL MONO

460W-480W

144 CELL

M6 MBB MONO PERC

460W-480W

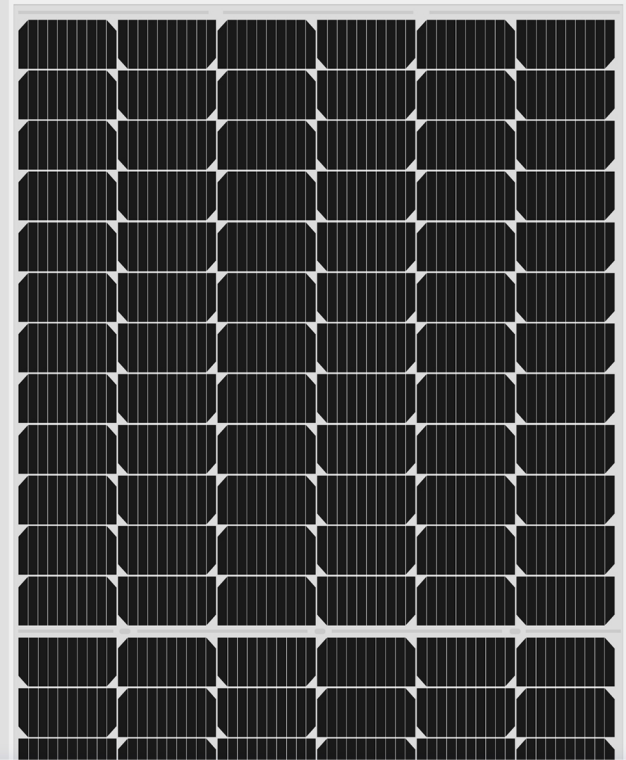
POWER OUTPUT RANGE

22.1%

MAXIMUM EFFICIENCY

0 to +5W

POSITIVE POWER TOLERANCE



Higher Output of Power

Effectively reduce the unit cost of PV solar system by watt



Optimize the temperature coefficient

Improve the performance under the condition of shadow and low temperature coefficient



Reduce the shadow loss on the power output

Effectively reduce the risk of heat spot on high efficiency



Stronger the physical property

Optimize the property of power generating and reliability of the system

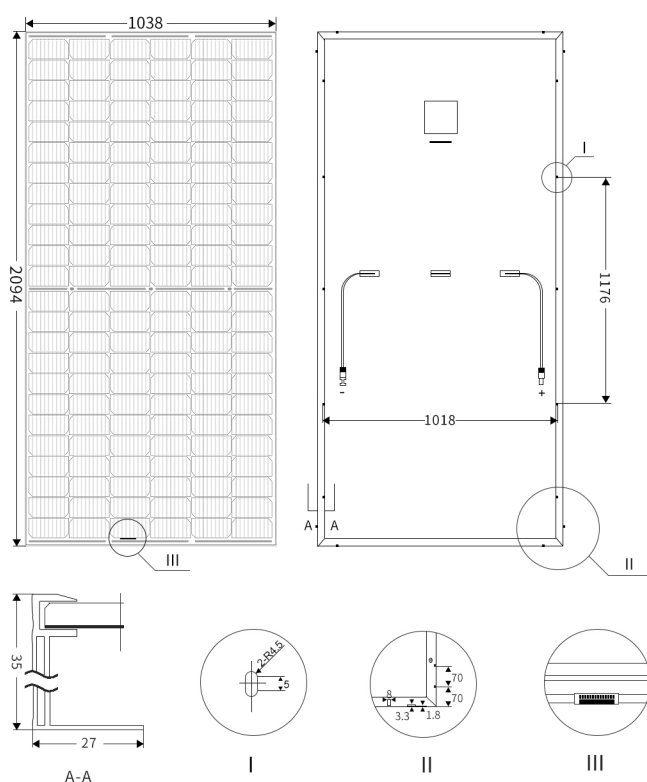
LINEAR PERFORMANCE WARRANTY



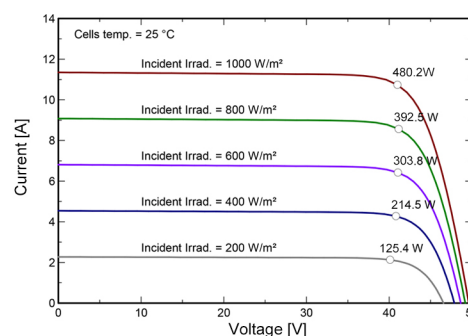
Module Type		PW-72M460HM6		PW-72M465HM6		PW-72M470HM6		PW-72M475HM6		PW-72M480HM6	
Test Environment		STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power	$P_{MAX}(W)$	460	340.4	465	344.1	470	347.8	475	351.5	480	355.2
Maximum Power Voltage	$V_{MPP}(V)$	41.59	38.39	41.79	38.57	41.99	38.76	42.19	38.94	42.39	39.12
Maximum Power Current	$I_{MPP}(A)$	11.06	8.86	11.13	8.92	11.19	8.97	11.26	9.03	11.32	9.07
Open Circuit Voltage	$V_{OC}(V)$	50.32	46.8	50.57	47.03	50.81	47.25	51.04	47.47	51.29	47.70
Short Circuit Current	$I_{SC}(A)$	11.67	9.35	11.74	9.41	11.81	9.46	11.88	9.53	11.94	9.57
Tolerance	(W)	0 - +5		0 - +5		0 - +5		0 - +5		0 - +5	
Module Efficiency	(%)	21.2		21.4		21.6		21.9		22.1	

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.
 Average efficiency reduction of 4.5% at 200W/m² according to EN 60904-1
 NOCT: Irradiance at 800 W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

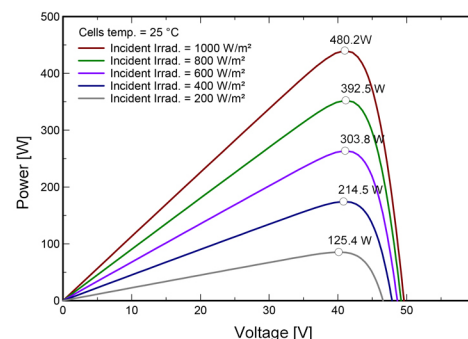
DIMENSIONS OF PV MODULE



I-V CURVES OF PV MODULE (480W)



P-V CURVES OF PV MODULE (480W)



MECHANICAL DATA		TEMPERATURE RATINGS	
Solar Cells	MBB Mono PERC 166 x 83mm	Nominal Operating Cell Temperature(NOCT)	45±2°C
Cell Orientation	144 cells (6 x 24)	Temperature Coefficient of P_{MAX}	-0.36%/°C
Module Dimensions	2094 x 1038 x 35mm	Temperature Coefficient of V_{OC}	-0.28%/°C
Weight	23.5kg	Temperature Coefficient of I_{SC}	+0.048%/°C
Glass	High Transparency, Anti-Reflective, AR Coated and Heat Tempered Solar Glass -3.2mm	MAXIMUM RATING	
Backsheet	White	Operational Temperature	-40 to +85°C
Frame	Silver Anodized Aluminium Alloy (Black Available)	Maximum System Voltage	1500V DC
J-Box	IP 68 rated	Max Series Fuse Rating	20A
Cables	Photovoltaic Technology cable 4.0mm ² , 350mm	Mechanical Load	5400pa
Connector	MC4 Compatible	Wind Load	2400pa
PACKING CONFIGURATION	Modules per box: 31 pieces	Modules per 40' container: 726 pieces	

© Powitt Solar Co., Ltd All rights reserved. Specifications included in this datasheet are subject to change without notice.