

G12 HALF CELL MONO

480W-500W

150 CELL

G12 MBB MONO PERC

480W-500W

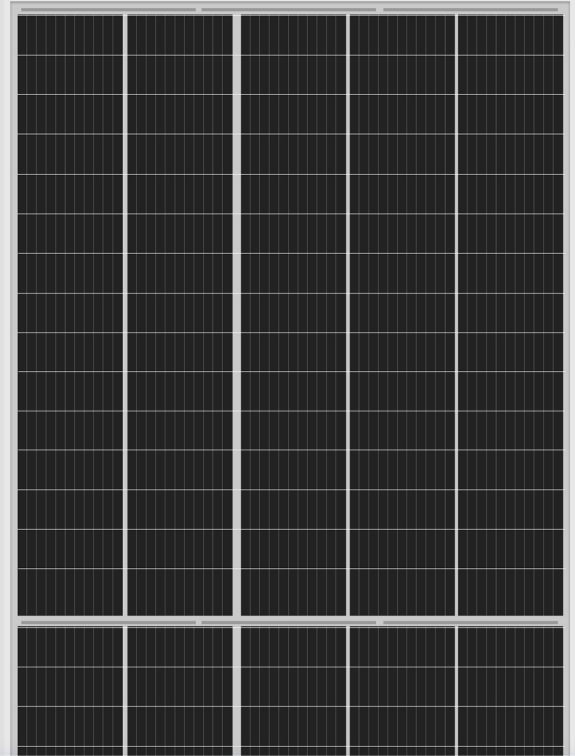
POWER OUTPUT RANGE

20.4%

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

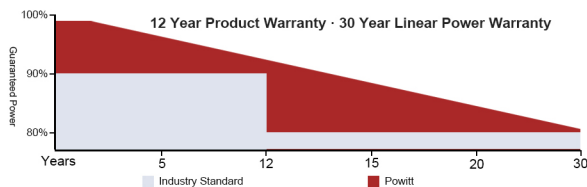
Effectively reduce the risk of heat spot on high efficiency



Stronger the physical property

Optimize the property of power generating and reliability of the system

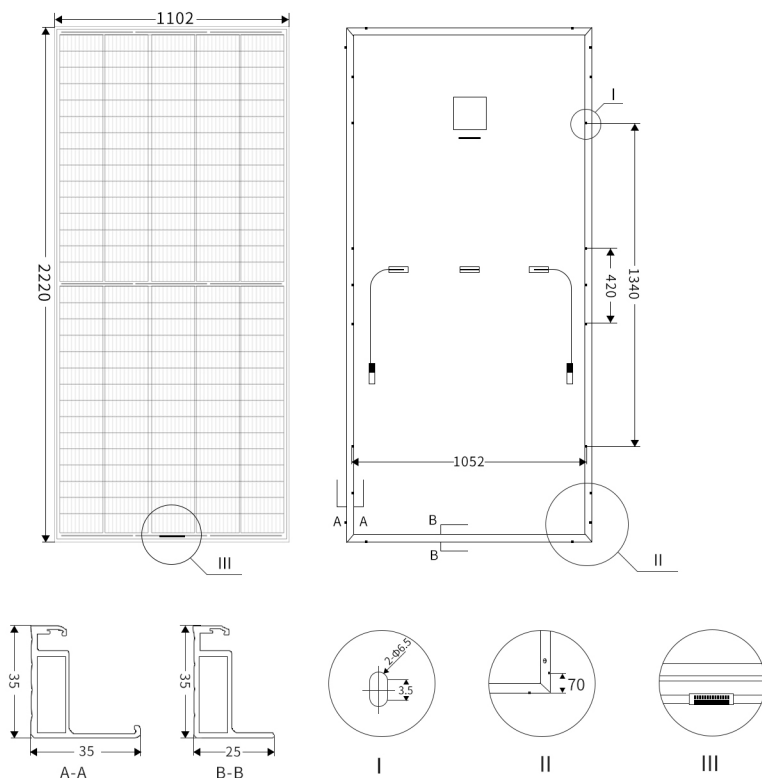
LINEAR PERFORMANCE WARRANTY



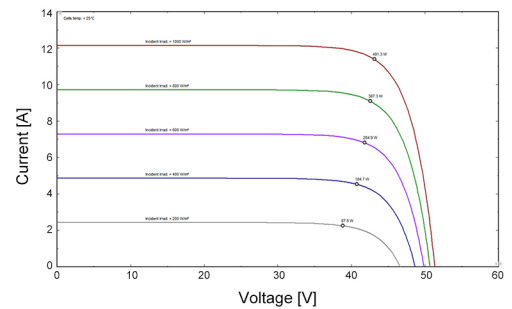
Module Type		PW-50M480HG12		PW-50M485HG12		PW-50M490HG12		PW-50M495HG12		PW-50M500HG12	
Test Environment		STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power	$P_{MAX}(W)$	480	357.2	485	367	490	370.8	495	374.6	500	378.4
Maximum Power Voltage	$V_{MPP}(V)$	41.98	38.59	42.18	39.78	42.38	39.97	42.58	40.16	42.78	40.35
Maximum Power Current	$I_{MPP}(A)$	11.44	9.26	11.5	9.21	11.56	9.26	11.63	9.31	11.69	9.36
Open Circuit Voltage	$V_{oc}(V)$	50.84	47.99	51.08	48.18	51.32	48.41	51.56	48.63	51.81	48.87
Short Circuit Current	$I_{sc}(A)$	12.02	9.71	12.08	9.73	12.14	9.78	12.22	9.84	12.28	9.89
Tolerance	(W)	0 - +5		0 - +5		0 - +5		0 - +5		0 - +5	
Module Efficiency	(%)	19.6		19.8		20		20.2		20.4	

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.

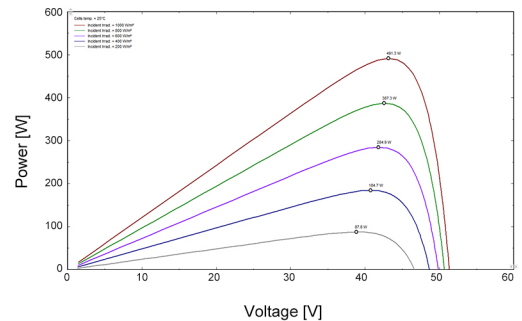
DIMENSIONS OF PV MODULE



I-V CURVES OF PV MODULE (490W)



P-V CURVES OF PV MODULE (490W)



MECHANICAL DATA		TEMPERATURE RATINGS	
Solar Cells	MBB-210x70mm(Mono-Crystalline Silicon)	Nominal Operating Cell Temperature(NOCT)	41±3°C
Cell Orientation	150 cells (3 x 50)	Temperature Coefficient of P_{MAX}	-0.362%/°C
Module Dimensions	2220x 1102 x 35mm	Temperature Coefficient of V_{oc}	-0.262%/°C
Weight	27kg	Temperature Coefficient of I_{sc}	+0.042%/°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 67 rated	Max Series Fuse Rating	20A
Cables	Photovoltaic Technology cable 4.0mm ² , 350mm	Mechanical Load	5400pa
Connector	EVO2 or EVO2 Compatible	Wind Load	2400pa
PACKING CONFIGURATION	Modules per box:31 pieces	Modules per 40' container:620 pieces	

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