

M10 P-TYPE MODULE

450W-470W

Premium Quality *Monofacial*

120 CELL

M10 MONO PERC

21.72%

MAXIMUM EFFICIENCY

0 to +5W

POSITIVE POWER TOLERANCE



Higher Output of Power



For Environment For Future



Optimize the Temperature Coefficient



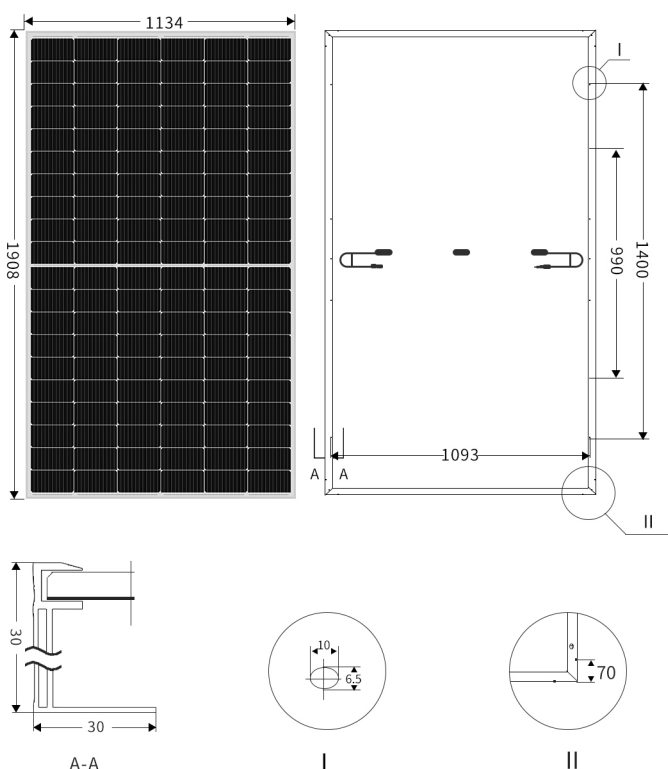
Reduce Equipment & Material Cost



Module Type		PW-60M450HM10		PW-60M455HM10		PW-60M460HM10		PW-60M465HM10		PW-60M470HM10	
Test Environment		STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power	$P_{MAX}(W)$	450	334.9	455	338.62	460	342.34	465	346.06	470	349.78
Maximum Power Voltage	$V_{MPP}(V)$	34.31	31.92	34.36	31.98	34.41	32.03	34.46	32.08	34.51	32.13
Maximum Power Current	$I_{MPP}(A)$	13.12	10.49	13.26	10.59	13.39	10.69	13.52	10.79	13.65	10.89
Open Circuit Voltage	$V_{OC}(V)$	41.56	39.23	41.62	39.3	41.68	39.36	41.74	39.42	41.8	39.48
Short Circuit Current	$I_{SC}(A)$	13.81	11.15	13.97	11.27	14.11	11.38	14.25	11.49	14.39	11.6
Tolerance	(W)	0 - +5		0 - +5		0 - +5		0 - +5		0 - +5	
Module Efficiency	(%)	20.80		21.03		21.26		21.49		21.72	

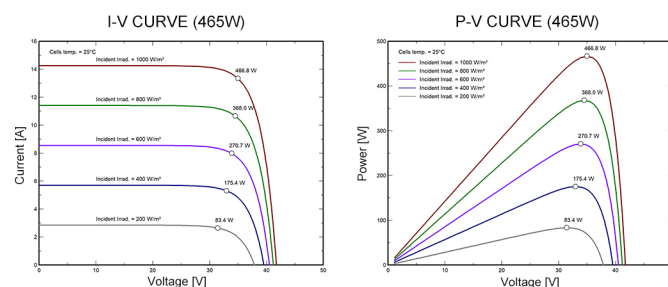
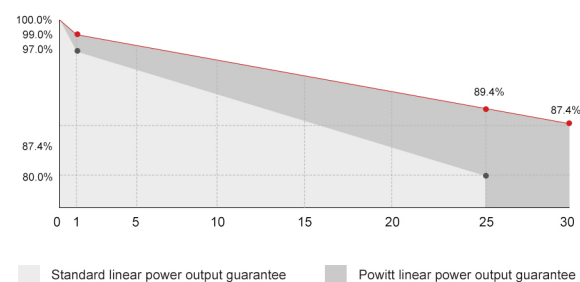
STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3. Average efficiency reduction of 4.5% at 200W/m² according to EN 60904-1
 NOCT: Irradiance at 800 W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

DIMENSIONS OF PV MODULE



LINEAR PERFORMANCE WARRANTY

15 Year Product Warranty 30 Year Linear Power Warranty



MECHANICAL DATA		TEMPERATURE RATINGS	
Cell Type	Mono PERC	Nominal Operating Cell Temperature(NOCT)	45±2°C
No. of Cells	120 (6 x 20)	Temperature Coefficient of P_{MAX}	-0.35%/°C
Module Dimensions	1908 x 1134 x 30mm	Temperature Coefficient of V_{OC}	-0.28%/°C
Weight	23.5kg	Temperature Coefficient of I_{SC}	+0.048%/°C
Glass	Anti-Reflective, AR Coated and Heat Tempered Solar Glass-3.2mm	MAXIMUM RATINGS	
Backsheet	White	Operational Temperature	-40 to +85°C
Frame	Anodized Aluminium Alloy	Maximum System Voltage	1500V DC
Junction Box	IP 68 Rated	Max Series Fuse Rating	25A
Cables	4.0mm², 350mm or Customized Length	Mechanical Load	5400pa
Connector	MC4 Compatible	Wind Load	2400pa
PACKAGING CONFIGURATION	36 pcs/Pallet, 864 pcs/40'HQ		

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