

# M10 HALF CELL MONO

# 390W-410W

## 108 CELL

MBB MONO PERC

## 390W-410W

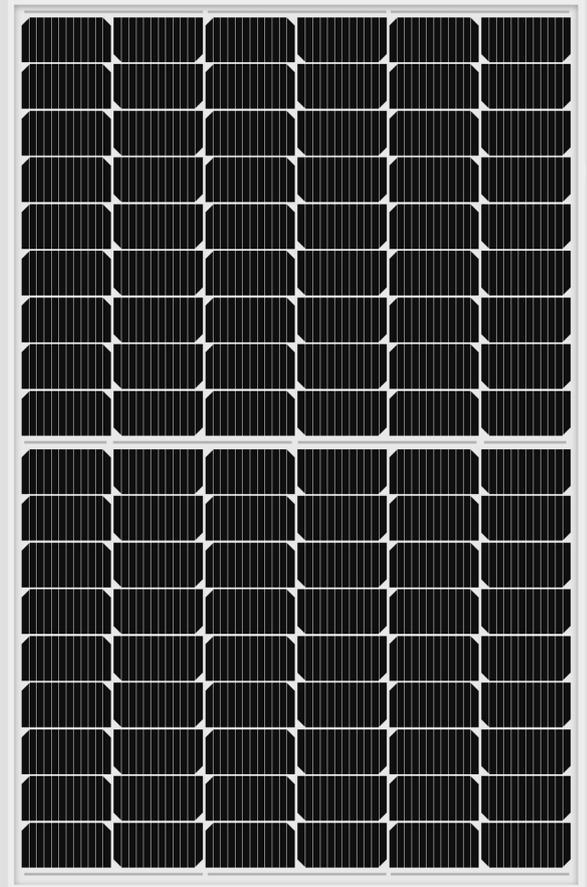
POWER OUTPUT RANGE

## 21.01%

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

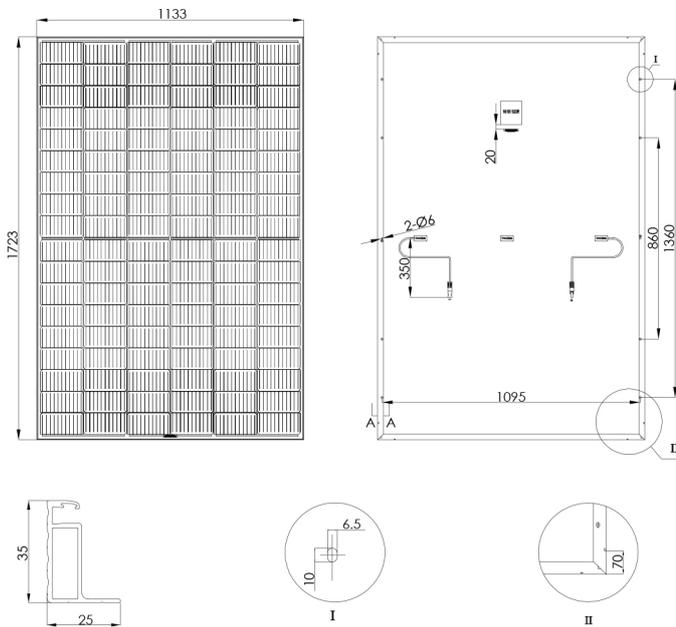
## LINEAR PERFORMANCE WARRANTY



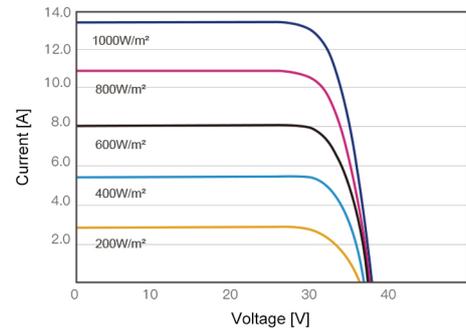
Module Type		PW-54M390HL		PW-54M395HL		PW-54M400HL		PW-54M405HL		PW-54M410HL	
Test Environment		STC	NOCT								
Maximum Power	$P_{MAX}(W)$	390	290.25	395	293.97	400	297.69	405	301.41	410	305.13
Maximum Power Voltage	$V_{MPP}(V)$	30.17	28.07	30.36	28.25	30.55	28.42	30.74	28.60	30.93	28.78
Maximum Power Current	$I_{MPP}(A)$	12.93	10.34	13.02	10.41	13.1	10.48	13.12	10.49	13.26	10.60
Open Circuit Voltage	$V_{OC}(V)$	36.55	34.50	36.78	34.72	37.01	34.93	37.24	35.15	37.47	35.37
Short Circuit Current	$I_{SC}(A)$	13.61	10.99	13.70	11.07	13.79	11.13	13.81	11.15	13.96	11.27
Tolerance	(W)	0 - +5		0 - +5		0 - +5		0 - +5		0 - +5	
Module Efficiency	(%)	19.98		20.24		20.5		20.75		21.01	

STC: Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.  
 Average efficiency reduction of 4.5% at 200W/m<sup>2</sup> according to EN 60904-1  
 NOCT: Irradiance at 800 W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s.

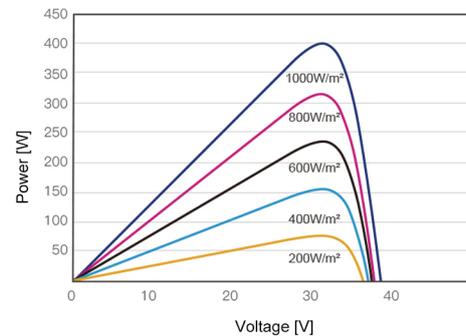
**DIMENSIONS OF PV MODULE**



**I-V CURVES OF PV MODULE**



**P-V CURVES OF PV MODULE**



MECHANICAL DATA		TEMPERATURE RATINGS	
Solar Cells	MBB Mono PERC 182x91mm	Nominal Operating Cell Temperature(NOCT)	45±2°C
Cell Orientation	108 cells (6 x 18)	Temperature Coefficient of $P_{MAX}$	-0.348%/°C
Module Dimensions	1723x1133x35mm	Temperature Coefficient of $V_{OC}$	-0.282%/°C
Weight	21.5kg	Temperature Coefficient of $I_{SC}$	+0.05%/°C
Glass	3.2mm low-iron tempered suede glass	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	25A
Cables	Photovoltaic Technology cable 4.0mm <sup>2</sup> , 350mm	Mechanical Load	5400pa
Connector	EVO2 or EVO2 Compatible	Wind Load	2400pa
PACKING CONFIGURATION	Modules per box: 31 pieces	Modules per 40' container: 720 pieces	

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