

**Electrical Characteristics**

Module Type	M10-54-400-BG			M10-54-405-BG			M10-54-410-BG			M10-54-415-BG		
	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC
Maximum Power at STC (Pmp)	400	301	280	405	304	284	410	308	287	415	311	291
Open Circuit Voltage (Voc)	37.1	34.6	37.1	37.2	34.7	37.2	37.3	34.8	37.3	37.4	34.9	37.4
Short Circuit Current (Isc)	13.60	10.99	9.59	13.70	11.07	9.66	13.80	11.15	9.73	13.90	11.23	9.80
Maximum Power Voltage (Vmp)	30.8	28.8	30.8	30.9	28.9	30.9	31.0	29.0	31.0	31.2	29.1	31.1
Maximum Power Current (Imp)	12.99	10.44	9.10	13.10	10.51	9.17	13.21	10.59	9.25	13.32	10.66	9.34
Module Efficiency at STC(ηm)	20.48			20.74			21.00			21.25		
Power Tolerance	(0,+4.99)											
Maximum System Voltage	1500 VDC											
Maximum Series Fuse Rating	25A											

STC: Irradiance 1000 W/m<sup>2</sup> module temperature 25°C AM=1.5;

**Rear Side Power Gain(M10-54-400-BG)**

Power Gain	10%	15%	20%	25%	30%
Maximum Power -Pmp (W)	451	472	492	513	533
Open Circuit Voltage -Voc (V)	37.2	37.2	37.2	37.2	37.2
Short Circuit Current -Isc (A)	15.18	15.87	16.56	17.25	17.94
Maximum Power Voltage -Vmp (V)	31.1	31.1	31.1	31.1	31.1
Maximum Power Current -Imp (A)	14.53	15.19	15.85	16.51	17.17

**Temperature Characteristics**

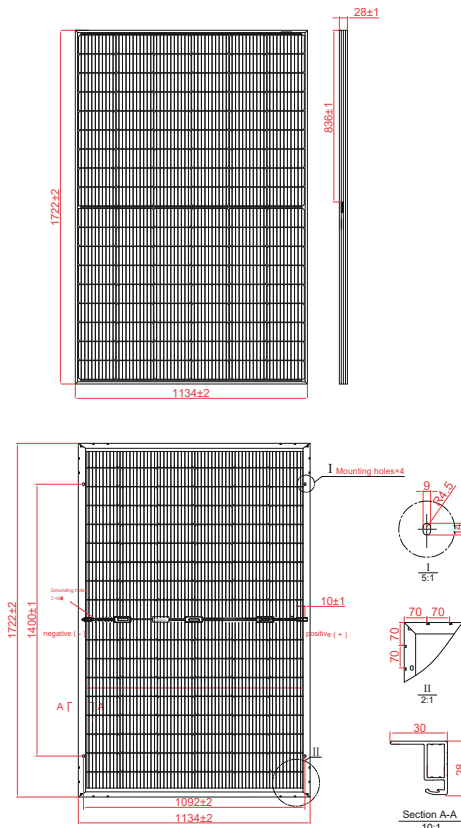
Pmax Temperature Coefficient	-0.34 %/°C
Voc Temperature Coefficient	-0.26 %/°C
Isc Temperature Coefficient	+0.05 %/°C
Operating Temperature	-40 ~ +85 °C
Nominal Operating Cell Temperature(NOCT)	45±2 °C
Fire Rating	Class C

**Mechanical Specifications**

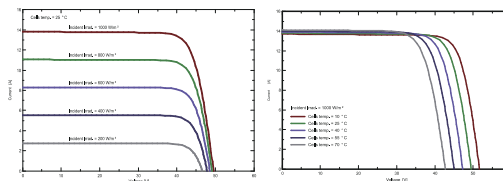
External Dimensions	1722 x 1134 x 28 mm
Weight	18.5kg
Solar Cells	PERC Mono crystalline(108pcs)
Front Glass	1.6mm+1.6mm AR coating semi-tempered glass, low iron
Frame	Anodized aluminium alloy
Junction Box	IP68,3 diodes
Output Cables	4.0 mm <sup>2</sup> ,Portrait:900mm or Customized Length
Connector	Genuine MC4 Connector /Compatible MC4 Connector
Mechanical Load	Front side 5400Pa/ Rear side 2400Pa

**Packing Configuration**

	1722 x 1134 x 28 mm
Container	40'HQ
Pieces per Pallet	38+38
Pallets per Container	13
Pieces per Container	988



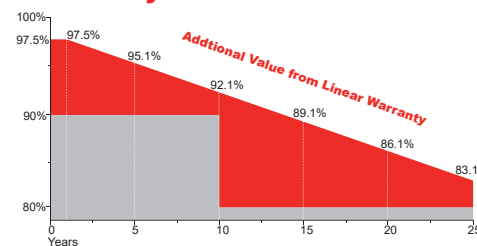
**I-V Curve**



**Product Certificates**

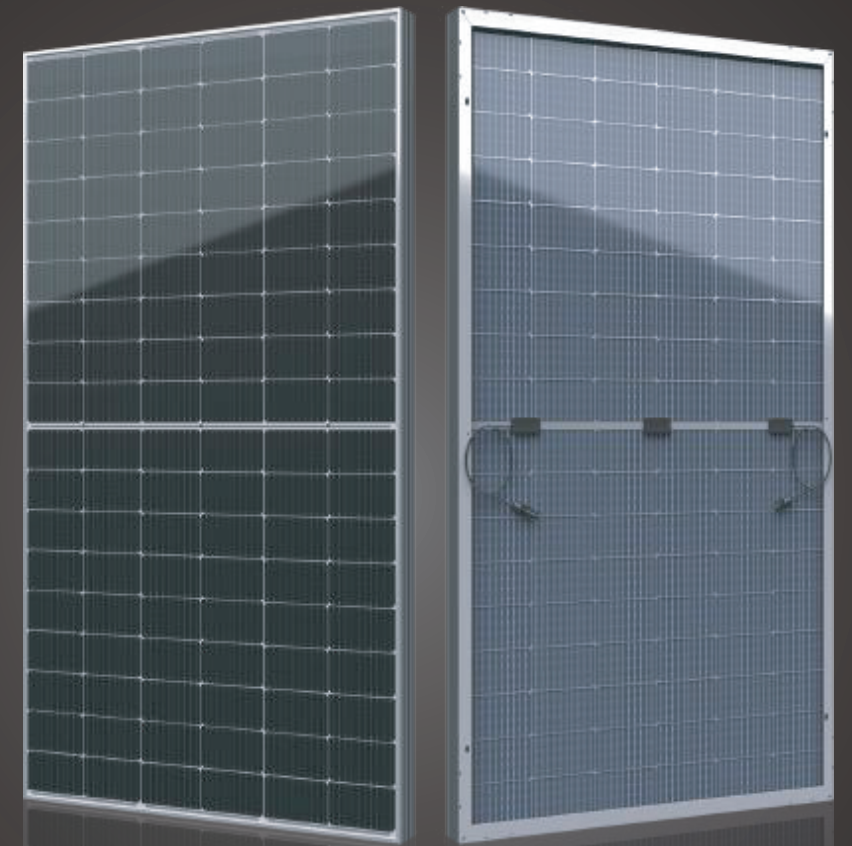


**Warranty**



**10 YEARS** Guarantee on product material and workmanship | **25 YEARS** linear power output warranty

Made in China



**M10-54-400-415W-BG**