

# 390~415W

AS390-415M10-108B

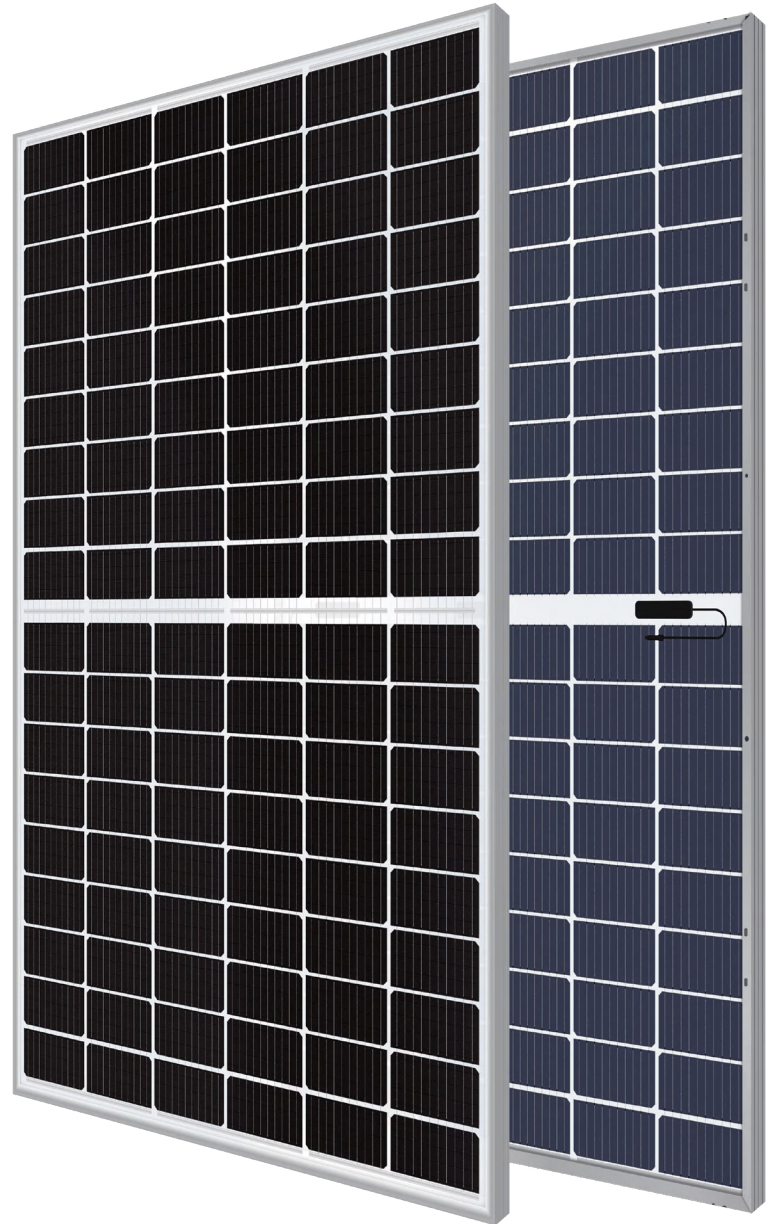
BIFACIAL MONO PERC

## MORE POWER

- Module power up to 415W  
Module efficiency up to 21.23 %
- Up to 8.9 % lower LCOE  
Up to 4.6 % lower system cost
- Comprehensive LID /LeTID mitigation technology, up to 50% lower degradation
- Compatible with mainstream trackers, cost effective product for utility power plant
- Better shading tolerance

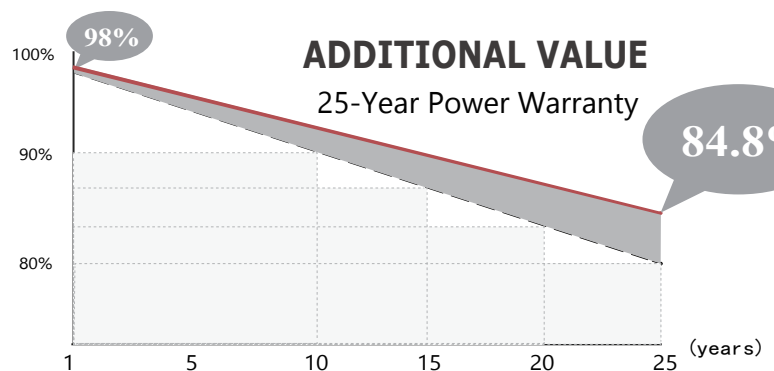
## MORE RELIABLE

- 40 °C lower hot spot temperature, greatly reduce module failure rate
- Minimizes micro-crack impacts
- Heavy snow load up to 5400 Pa, wind load up to 2400 Pa



**12** 12-year Warranty for Materials and Processing

**25** 25-year Warranty for Extra Linear Power Output



AS390-415M10-108B

# 390-415W

Half-Cell High Efficiency PV Module

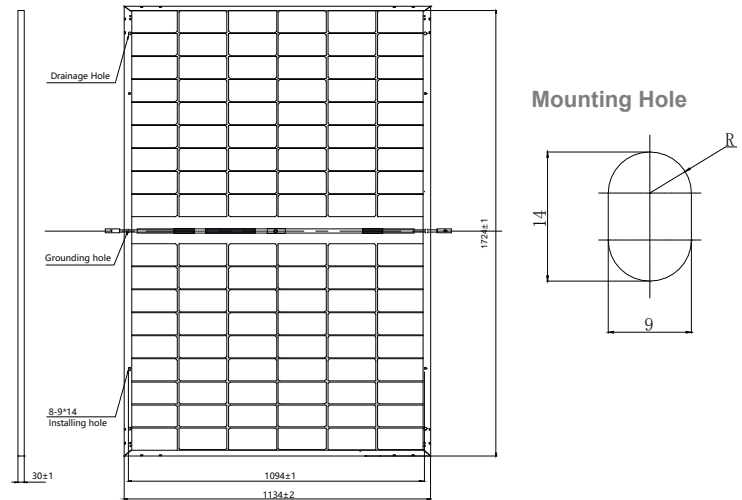
**Weight**  
26.5kgs±3%

**Cells Type**  
Mono 182x91mm

**Dimension(LxWxT)**  
1724±2mmx1134±2mmx30±1mm

**Packaging**  
72pcs/pallet, 936pcs/40HQ container

Rear View



Remark: customized frame color and cable length available upon request

**MECHANICAL SPECIFICATION**

Cell	Mono
No.of cells	108(6x18)
Cable Length	1100mm
Cable Cross Section Size	4mm <sup>2</sup> (IEC)
Junction Box	IP68
Connector	MC4 Compatible

**OPERATING PARAMETERS**

Maximum System Voltage	1500VDC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse	30A
Maximum StaticLoad,Front	5400Pa(112lb/ft <sup>2</sup> )
Maximum StaticLoad,Back	2400Pa(50lb/ft <sup>2</sup> )
Safety Class	ClassII

**ELECTRICAL CHARACTERISTICS**

STC:AM1.5 1000W/m<sup>2</sup> 25 °C NOCT:AM1.5 800W/m<sup>2</sup> 20 °C 1m/s Test uncertainty for Pmax ±3%

Module Type	AS390M10-108B		AS395M10-108B		AS400M10-108B		AS405M10-108B		AS410M10-108B		AS415M10-108B	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	390	317.4	395	321.2	400	325.4	405	329.2	410	333.1	415	337.1
Open Circuit Voltage(Voc/V)	36.53	36.70	36.73	36.90	36.93	37.10	37.13	37.30	37.33	37.50	37.53	37.70
Short Circuit Current(Isc/A)	13.62	10.88	13.69	10.93	13.76	10.99	13.83	11.04	13.90	11.10	13.97	11.16
Voltage at Maximum Power(Vmp/V)	30.41	30.90	30.62	31.10	30.83	31.30	31.04	31.50	31.25	31.70	31.47	31.90
Current at Maximum Power(Imp/A)	12.83	10.28	12.90	10.34	12.98	10.41	13.05	10.47	13.12	10.52	13.19	10.58
Module Efficiency(%)	19.95		20.20		20.46		20.72		20.97		21.23	

**Electrical Characteristics with 15% Rear Side Power Gain**

	390	395	400	405	410	415
Front power Pmax (W)	390	395	400	405	410	415
Total power Pmax (W)	448.5	454.25	460	465.75	471.5	477.25
Voc/V (Total)	36.53	36.73	36.93	37.13	37.33	37.53
Isc/A (Total)	15.66	15.74	15.82	15.90	15.99	16.07
Vmp/V (Total)	30.41	30.62	30.83	31.04	31.25	31.47
Imp/A (Total)	14.75	14.84	14.92	15.00	15.09	15.17

**TEMPERATURE RATINGS**

Norminal Operating Cell Temperature(NOCT)	44±2 °C
Temperature Coefficiency of Isc	+0.048%/ °C
Temperature Coefficiency of Voc	-0.27%/ °C
Temperature Coefficiency of Pmax	-0.35%/ °C

**I-V CURVE(AS390-415M10-108B)**

