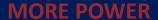


AFR-540-560W

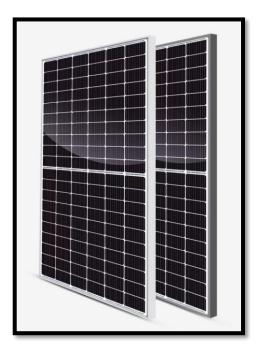
144 Half Cell Monofacial Module



- \$
- Up to 560W front power and 21.7% module efficiency with halfcut and MBB (Multi Busbar) technology brining more BOS savings
- Lower resistance of half-cut and good reflection effect of MBB ensure high power
- Better light trapping and current collection to improve module power output and reliability



 Optimized electrical design and lower operating current for reduced hot spot loss and better temperature coefficient



MORE RELIABLE



Minimizes micro-crack impacts



 Ensured PID resistance through cell process and module material control



- Durability against extreme environmental conditions
- Resistant to salt, acid and ammonia



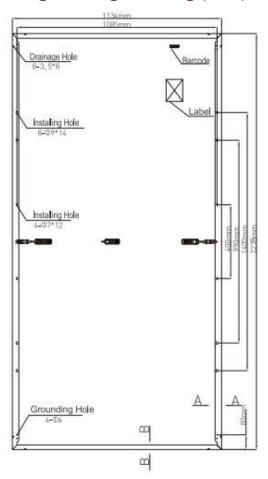
Enhanced mechanical load
Certified to withstand:
wind load (2400 Pascal) and
snow load (5400 Pascal)

21.7%

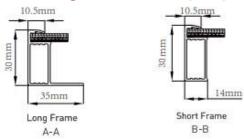
Max Module Efficiency 0 ~+5W

Positive Power Tolerance

Engineering Drawing (mm)



Framing Cross Section (mm)



System and product certification

IEC61215/ IEC61730/ IEC61701/ IEC62716 ISO9001: Quality Management System ISO14001: Environmental Management System OHSAS18001: Occupational Health and Safety System

> 36 pieces per pallet 720 pieces per 40' container

Electrical Characteristics (STC)

PV Module Model	AFR- 540W	AFR- 545W	AFR- 550W	AFR- 555W	AFR- 560W
Maximum Power- Pmax (W)	540	545	550	555	560
Open Circuit Voltage- Voc (V)	49.75	49.98	50.22	50.45	50.68
Short Circuit Current- Isc (A)	13.63	13.66	13.70	13.73	13.76
Voltage at Pmax- Vmp(V)	42.06	42.35	42.64	42.93	43.22
Current at Pmax-Imp (A)	12.84	12.87	12.90	12.93	12.96
Module Efficiency- nm(%)	20.9	21.1	21.3	21.5	21.7
Power Output Tolerance (W)			0~+5		

Electrical Characteristics (NMOT)

Maximum Power- Pmax(W)	408.6	412.4	416.2	420.0	423.8
Open Circuit Voltage- Voc(V)	46.96	47.18	47.40	47.62	47.85
Short Circuit Current- Isc(A)	10.92	10.94	10.97	10.99	11.02
Voltage at Pmax- Vmp(V)	39.01	39.28	39.55	39.82	40.09
Current at Pmax- Imp(A)	10.47	10.50	10.52	10.55	10.57

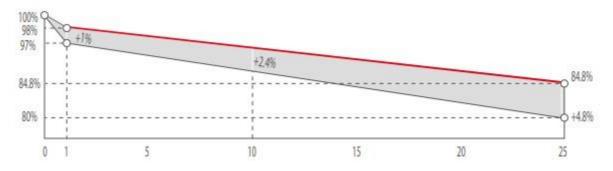
Temperature Characteristics

Pmax Temperature Coefficient	-0.36%/C
Voc Temperature Coefficient	-0.28%/C
Isc Temperature Coefficient	+0.05%/C
Operating Temperature	-40~+85C
Nominal Module Operating Temperature (NMOT)	43±2C

Mechanical Specifications

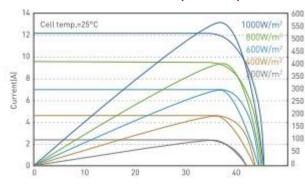
External Dimensions	2278x1134x30mm		
Weight	28.3kg		
Solar Cells	182mm monocrystalline 144(6x24)pcs		
Front Glass	High Transparency solar glass 3.2mm		
Frame	Black/Silver Anodized aluminum alloy		
Junction Box	IP68 rated		
Output Cables	Length can be customized/4.0mm², cable length: 280mm(+)/280mm(-)		
Connector	MC4 Compatible		
Wind/Snow Load	2400Pa/5400Pa		
Maximum System Voltage	1500V DC		
Max Series Fuse Rating	25A		

Industry-leading Warranty



- First year power degradation: 2%
- Annual degradation: 0.55%
- Product warranty: 12 years
- Linear warranty: 25 years

I-V/P-V Curve at Different Irradiation (555W)



I-V Curve at Different Temperature (555W)

