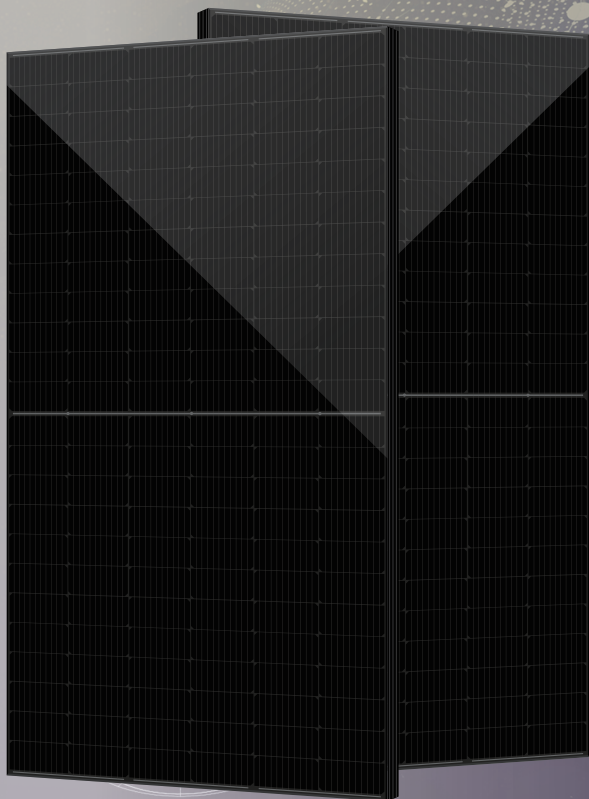


ASM 144HC

High Performance Mono Perc Module

540-550 w



Elegant appearance with All black design



Multi Busbar Technology

Better light trapping and current collection to improve module power output and reliability.



Reduced Hot Spot Loss

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



Anti PID

Ensured PID resistance through the quality control of cell manufacturing process and raw materials.



Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



Enhanced Mechanical Load

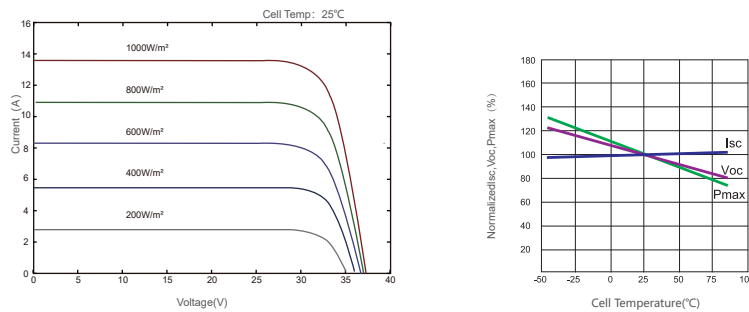
Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).

Electrical characteristics

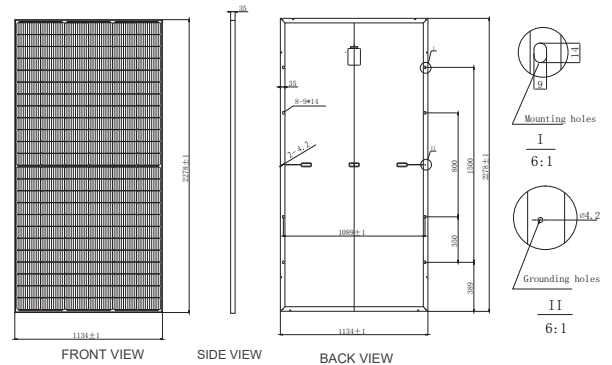
Module Type	540W		545W		550W	
	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power At STC(Pmax)	540W	406.8W	545W	410.5W	550W	414.3W
Short Circuit Current(Isc)	13.70A	11.07A	13.76A	11.12A	13.82A	11.17A
Open Circuit Voltage(Voc)	49.8V	46.5V	50.0V	46.7V	50.2V	46.9V
Maximum Power Current(Imp)	12.86A	10.49A	12.92A	10.54A	12.98A	10.58A
Maximum Power Voltage(Vmpp)	42.0V	38.8V	42.2V	39.0V	42.4V	39.1V
Module Efficiency	20.90%		21.10%		21.29%	
Power Tolerance	0~+5W		0~+5W		0~+5W	
Maximum System Voltage	VDC 1500V					
Maximum Series Fuse	25A					
Increased Snowload Acc.to Iec 61215	5400Pa					
Operating Temperature	-40~+85°C					
Number Of Bypass Diodes	3					
Norminal Operating Cell Temperature(Noct)	45°C±2°C					
Temperature Coefficient Of Pmax	-0.35%/°C					
Temperature Coefficient Of Voc	-0.27%/°C					
Temperature Coefficient Of Isc	0.05%/°C					

STC: 1000W/m² irradiance, 25°C cell temperature, AM1.5. NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, wind speed 1m/s.

I-V Curve



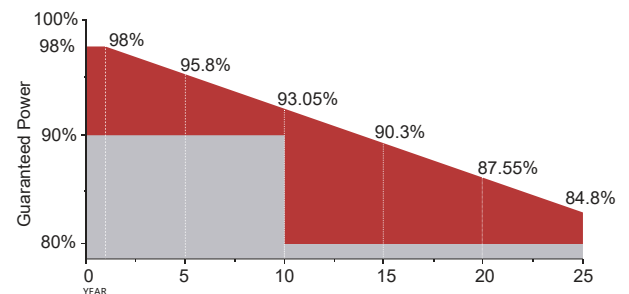
Design



The structural characteristics

Cell Type	Mono Crystalline 182x91mm
Number Of Cells	144 (6x24)
Dimensions(AxBxC)	2278x1134x35mm
Weights	29.0kg
Glass	3.2mm Tempered Low Iron Glass
Aluminium Frame	Anodised Aluminium
Junction Box	Split Junction Box (IP68, three diode)
Connector	Mc4 Compatible
Output Cables	4.0mm ² , +300mm, -300mm Customized Length

Linear Performance Warranty



12-year product warranty



30-year linear power output warranty