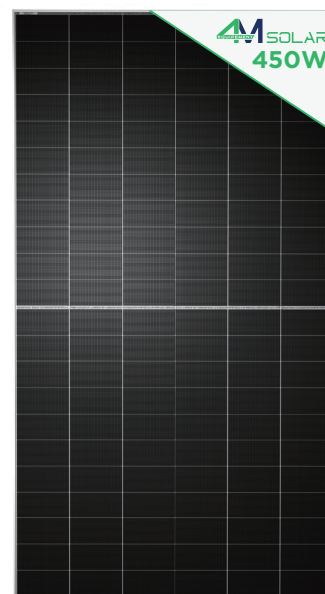




MONOCRYSTALLINE SOLAR MODULE

182-120 HALF CELL 435-460 WATT

QJPV linear warranty



**12
Years**

Limited Product Warranty



**25
Years**

Performance Warranty

2%

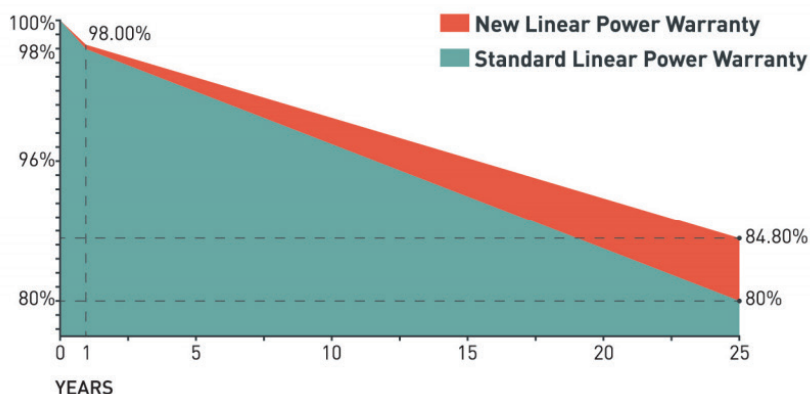
The First Year Degradation

0.55%

Linear Attenuation Of 0.55% Per Year Within 25 Years

25Years

25 Years Performance Warranty



The solar panel characteristics



SMBB Cell Design



Low Degradation



High Reliability



Excellent Low-light Performance



PID Resistant



MONOCRYSTALLINE

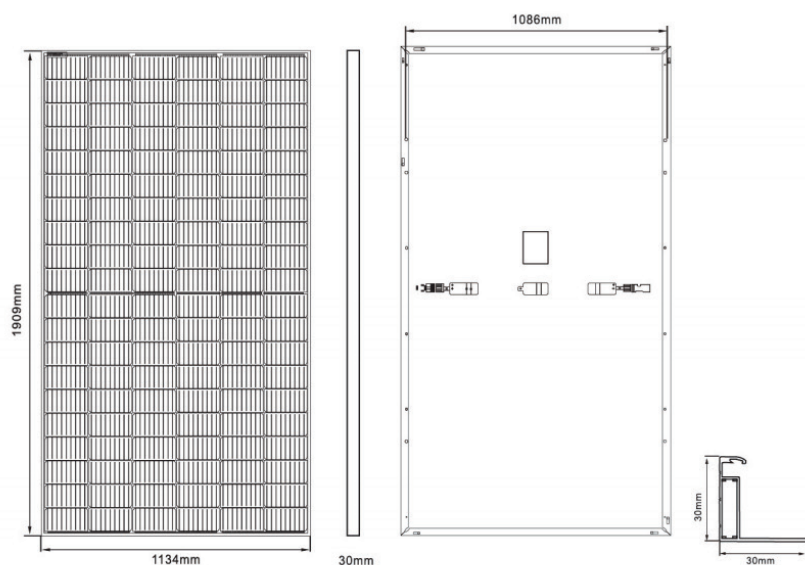
182-120 HALF CELL 435-460 WATT



ELECTRICAL PERFORMANCE

Module Type	QJM435-120H	QJM440-120H	QJM445-120H	QJM450-120H	QJM455-120H	QJM460-120H
	STC	STC	STC	STC	STC	STC
Maximum Power(Pmax)	435WP	440WP	445WP	450WP	455WP	460WP
Maximum Power Voltage(Vmp)	34.60V	34.69V	34.78V	34.85V	34.94V	35.08V
Maximum Power Current(Imp)	12.58A	12.68A	12.79A	12.92A	13.02A	13.11A
Open-circuit Voltage(Voc)	40.90V	41.00V	41.10V	41.20V	41.30V	41.40V
Short-circuit Current(Isc)	13.46A	13.57A	13.69A	13.82A	13.94A	14.03A
Module Efficiency STC(%)	20.05%	20.28%	20.51%	20.73%	20.97%	21.20%
Operating Temperature(°C)	-40°C - +85°C					
Maximum System Voltage	1500VDC					
Maximum Series Fuse Rating	25A					
Power Tolerance	0 ~ +5W					
Temperature Coefficients Of Voc	-0.25%/°C		Temperature Coefficients Of Pmax		-0.29%/°C	
Temperature Coefficients Of Isc	0.045%/°C		Nominal Operating Cell Temperature(NOCT)		45±2°C	

MODULE DIAGRAM



*STC: Irradiance 1000W/m²

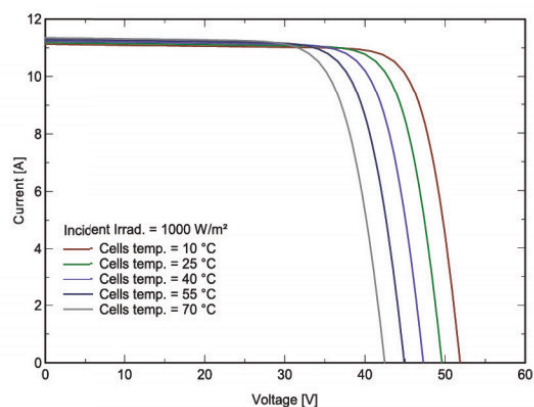
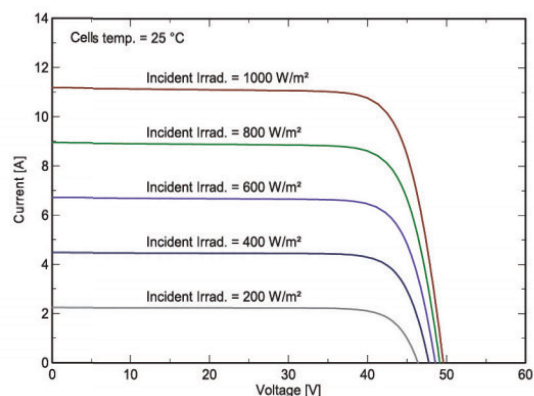
Cell Temperature 25°C

AM 1.5

MECHANICAL CHARACTERISTICS

Front Cover	Tempered AR coated glass, 3.2mm
Solar Cell	120(6*10+6*10) Monocrystalline
Frame	Anodized aluminum alloy
Junction Box	IP68, 3 diodes
Protection Class	Class II
Front/Rear Side Maximum Static Loading	5400Pa/2400Pa
Cables & Plug Connectors	300mm, 4mm ² & MC4 compatible; customized
Application Level	Class A
Module Dimensions	1909*1134*30mm(±1mm)
Module Weight	23kg

ELECTRICAL CURVES



PACKING DETAILS

Container	40HQ
Pieces per pallet	36PCS
Pallets per container	24P
Pallets per container	864PCS