



520-550W

AS520-550 Perovskite

High-efficiency Perovskite solar Panel

1500VDC

Maximum System Voltage

18.90%

Maximum Efficiency

KEY SALIENT FEATURES



Enhanced power generation in low-light conditions



Low temperature coefficient



Low hot-spot effect



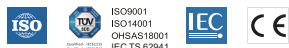
Display-level quality control



Ultimate aesthetic design



No risk of micro-cracks



* As there are different certification requirements in different markets, please contact your local Energy sales representative for the specific certificate applicable to the products in the region in which the products are to be used.

30 Year

Warranty for Extra Linear Power Output

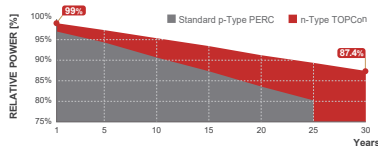
15 Year

Warranty for Materials and Processing

0.4%

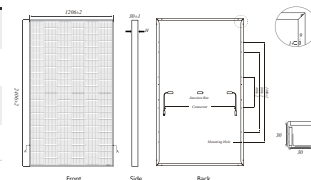
Annual degradation

LINEAR PERFORMANCE WARRANTY



AS520-550 High-efficiency perovskite solar panel

Weight	43kgs±3%
Dimension(LxWxT)	2406±2mmx1206±2mmx30±1mm
Packaging	36 pieces/pallet, 720 pieces/13.5-meter flatbed cart, 1080 pieces/17.5-meter flatbed cart



Remark: customized frame color and cable length available upon request

ELECTRICAL CHARACTERISTICS

Module Type	AS 520	AS 530	AS 540	AS 550
Testing Condition	STC	STC	STC	STC
Maximum Power(Pmax/W)	520	530	540	550
Voltage at Maximum Power(Vmp/V)	161.87	162.65	163.43	164.21
Current at Maximum Power(Imp/A)	3.21	3.26	3.31	3.36
Open Circuit Voltage(Voc/V)	190.44	191.36	192.28	193.2
Short Circuit Current(Isc/A)	3.64	3.7	3.76	3.82
Module Efficiency(%)	17.9	18.3	18.6	18.9

MECHANICAL SPECIFICATION

Cable Length	300mm(+/-)/300mm(-)	Cable Cross Section Size	4mm²(IEC)
Connector	MC4 Compatible	Junction Box	IP68

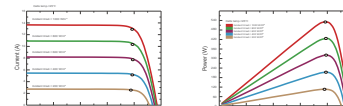
OPERATING PARAMETERS

Maximum System Voltage	1500VDC	Maximum StaticLoad,Front	2400Pa(112lb/ft²)
Operating Temperature	-40°C ~ +70°C	Maximum StaticLoad,Back	2400Pa(50lb/ft²)
Maximum Series Fuse	10A	Safety Class	Class II

OPERATING PARAMETERS

Temperature Coefficient of Isc	-0.26%/°C
Temperature Coefficient of Voc	-0.017%/°C
Temperature Coefficient of Pmax	-0.05%/°C

I-V CURVE(AS520-550)



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