



*Please check the valid version of Limited Product Warranty which is officially released by Anhui Shangxia Solar Energy Co., Ltd.

ASM54P 415-435 Series

N-type Double glass components

415-435W

22.30%

0.55%

POWER RANGE

MAXIMUM EFFICIENCY

YEARLY DEGRADATION















IEC 61215/IEC 61730/IEC 61701/IEC 62716/UL6 1730

ISO 14001: Environmental Management System

ISO 9001: Quality Management System

ISO45001: Occupational Health and Safety Management System

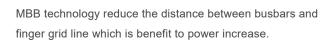
*As there are different certification requirements in different markets.please contact your local znshine sales representative for the specific certificates applicable to the products in the region in which the products are to be used.

KEY FEATURES-



Guaranteed Power

Excellent Cells Efficiency





Anti PID

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



TIER 1

Global, Tier 1 bankable brand, with independently certified advanced automated manufacturing.



Bifacial Technology

Up to 25% additional power gain from back side depending on albedo.



Better Weak Illumination Response

More power output in weak light condition, such as haze, cloudy, and early morning.



Adapt To Harsh Outdoor Environment

Resistant to harsh environments such as salt, ammonia, sand, high temperature and high humidity environment.



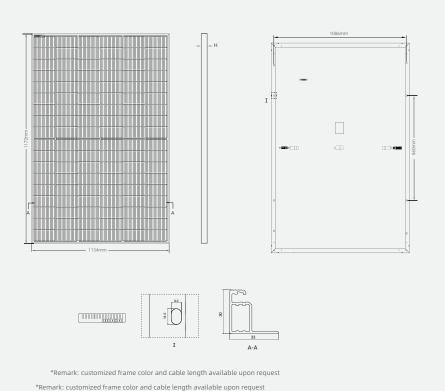
Excellent Quality Managerment System

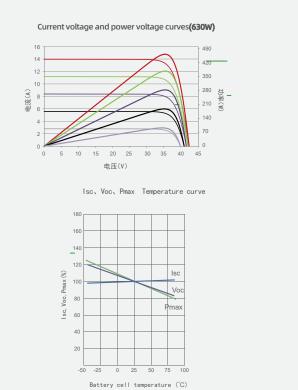
Warranted reliability and stringent quality assurances well beyond certified requirements.

ASM54P 415-435 Series N-type Double glass components



DIMENSIONS OF PV MODULE(mm)





ELECTRICAL CHARACTERISTICS | STC*

Nominal Power Watt Pmax(W)*	415	420	425	430	435
Power Output Tolerance Pmax(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum Power Voltage Vmp(V)	31.68	32.02	32.35	32.68	33.01
Maximum Power Current Imp(A)	13.10	13.12	13.14	13.16	13.18
Open Circuit Voltage Voc(V)	38.45	38.48	38.54	38.60	38.72
Short Circuit Current Isc(A)	13.77	13.78	13.79	13.16	13.89
Module Efficiency (%)	21.30	21.50	21.80	22.00	22.30

^{*}The data above is for reference only and the actual data is in accordance with the pratical testing

MECHANICAL DATA

Solar cells	Double glass		
Cells orientation	144 (6×24)		
Module dimension	1172×1134×30mm(With Frame)		
Weight	24.1kg		
Glass	3.2mm, High Transmission, AR Coated Tempered		
Junction box	Glass IP 68, 3 diodes		
Cables	4 mm² ,350 mm (With Connectors)		
Connectors*	MC4-compatible		

^{*}Please refer to regional datasheet for specified connector

ELECTRICAL CHARACTERISTICS | NMOT*

Maximum Power Pmax(Wp)	313	316	319	322	325
Maximum Power Voltage Vmpp(V)	29.82	30.05	30.28	30.51	30.83
Maximum Power Current Impp(A)	10.5	10.52	10.54	10.56	10.54
Open Circuit Voltage Voc(V)	36.37	36.4	36.46	36.52	36.82
Short Circuit Current Isc(A)	11.10	11.11	11.11	11.12	11.20
*NMOT:Irradiance 800W/m²,Ambient Temperature 20°C,AM 1.5,Wind Speed 1m/s					

Double-sided generation parameters (back gain)

Back power gain	10%	15%	20%	25%	30%
Maximum Power (PMAX/W)	473	494.5	516	537	559
Open circuit voltage (VOC/V)	38.6	38.6	38.7	38.7	38.7
Short Circuit Current (ISC/a)	15.18	15.87	16.56	17.25	17.94
Maximum power point voltage (VMP/)	32.68	32.68	32.78	32.78	32.78
Maximum Power Point Current (Imp/a)	14.47	15.13	16.4	16.4	17.05

TEMPERATURE RATINGS WORKING CONDITIONS

	NMOT	45°C ±2°C	Maximum system voltage	1500 V DC
	Temperature coefficient of Pmax	-0.29%/°C	Operating temperature	-40°C~+85°C
	Temperature coefficient of Voc	-0.25%/°C	Maximum series fuse	30 A
	Temperature coefficient of Isc	+0.045%/°C	Front Side Maximum Static Loading	Up to 5400Pa
	Refer.Bifacial Factor	80 ±5%	Rear Side Maximum Static Loading	Up to 2400Pa

^{*}Do not connect Fuse in Combiner Box with two or more strings in parallel connection

^{*}STC (Standard Test Condition): Irradiance 1000W/ m^2 , Module Temperature 25°C, AM 1.5

^{*}Measuring tolerance: ±3%