



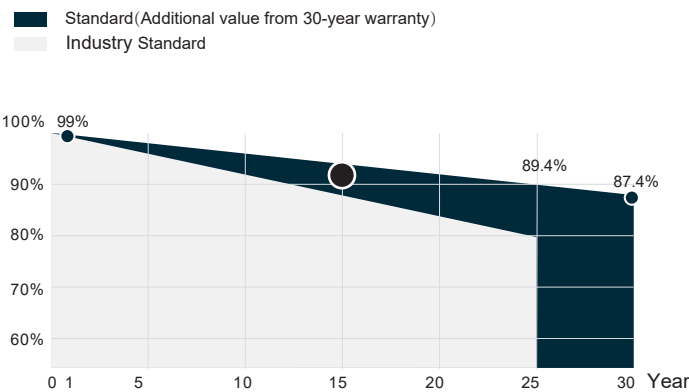
Tier 1

430W

TOPCON Mono Solar Panel

SKU: 11933 Silver frame

15 Yr quality guarantee | 30 Yr power warranty



WARRANTY & GUARANTEE

Linear output power guarantee
15 years: 89.4% power output
30 years: 87.4% power output



WITHSTAND STRONG

Snow load 5400Pa
Wind load 2400Pa



R&D AND PRODUCTION

Advanced production line. The leading solar cell cutting process and multi busbar design



HIGH EFFICIENCY

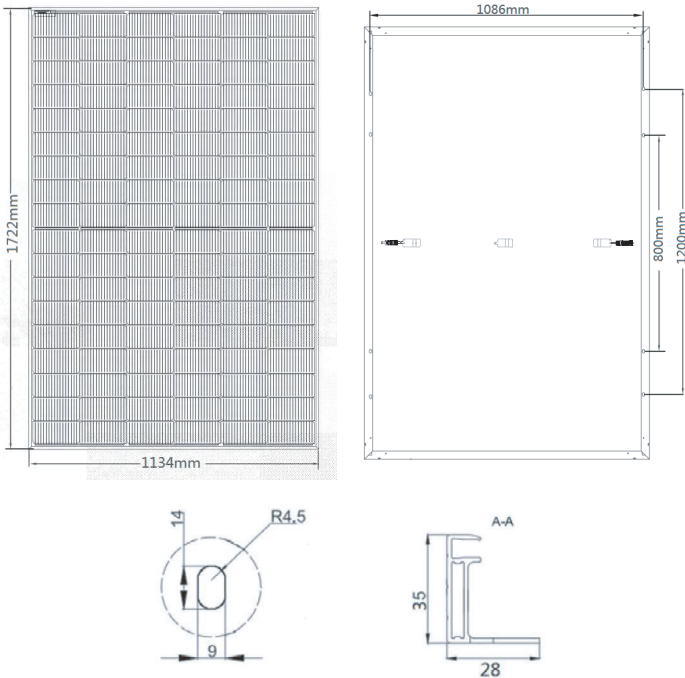
N-type, Components have better reliability and lower LID/LETID attenuation. Efficiency can reach 22.53%. Excellent low light performance. Higher power output under the conditions of haze, overcast, etc.



PID RESISTANCE

Power positive tolerance 0~+3%. The attenuation probability of PID phenomenon is minimized through battery production technology optimization and material control

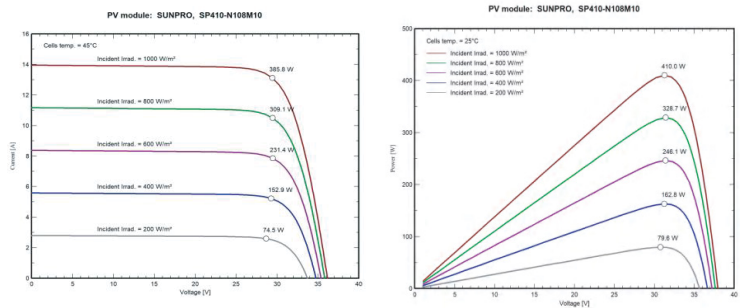
ENGINEERING DRAWING



Mechanical Data

Dimensions	1722x1134x35mm
Weight	21.5kg
Glass	3.2mm ultra clear embossed tempered coated glass
Output cables	4mm ² , symmetrical lengths 1100mm
Connectors	MC4 compatible IP68
Cell type	N type Mono-Crystalline , 182x91mm
Number of cells	108cells (Half-Cell)

I-V CHARACTERISTICS AT DIFFERENT IRRADIATION



Electrical parameters at NMOT test conditions

(Irradiance 800W/m², Ambient Temperature 20°C ,AM 1.5, Wind Speed 1m/s)

Max power(Pmax)	324
Max power voltage(Vmp)	29.9
Max power current(Imp)	10.84
Open circuit voltage(Voc)	36.1
Short circuit current(Isc)	11.48

Electrical parameters at standard test conditions

(STC:AM=1.5, 1000W/m² ,Cells Temperature25°C)

Max power(Pmax)	430
Max power voltage(Vmp)	31.79
Max power current(Imp)	13.53
Open circuit voltage(Voc)	38.34
Short circuit current(Isc)	14.25
Module Efficiency(%)	22.02
Max system voltage	DC 1500V (TÜV)
Maximum Series Fuse Rating	25A

Temperature Characteristics

Temp.Coeff.of Isc(TK Isc)	0.046%/°C
Temp.Coeff.of Voc(TK Voc)	-0.25%/°C
Temp.Coeff.of Pmax(TK Pmax)	-0.30%/°C
Operating temperature	-40~+85°C
Normal operating cell temperature	45±2°C

Packing Configuration

Container	40'HQ
Pieces per pallet	62
Pallets per container	13
Pieces per container	806

Tests, Certifications and Warranties

Standard tests	IEC 61215, IEC 61730
System certs	ISO 9001, ISO14001, ISO45001
Certifications	TÜV, CE, CEC, WEEE
Extreme wind and snow loads testing	Withstand extreme wind(2400 Pascal) and snow loads(5400 Pascal)
Power tolerance	0~+3%
Junction box	IP 68
Warranties	15 years product warranty and 30 years 87.4% of power