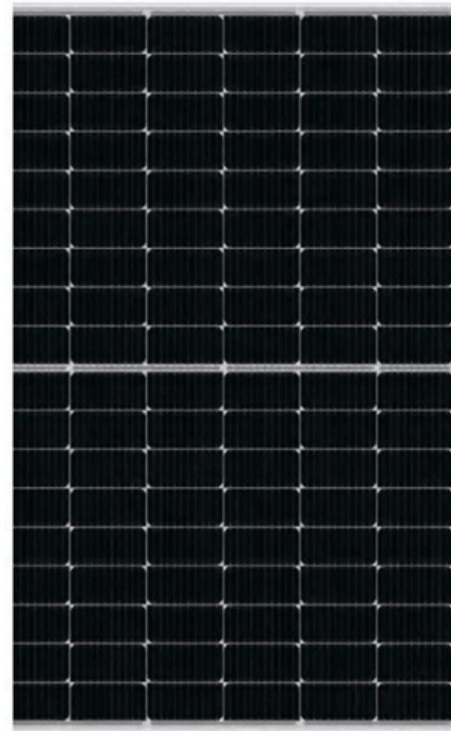


p.n.420012

410w mono 108 half cut solar panel by 182mm solar cells, size 1724*1134*30mm, Grade A

SPxxx-108M10
(xxx=390~410)



POWER TOLERANCE

0~+3%



**WITHSTAND STRONG SNOW LOAD
5400 Pa/ WIND LOAD 2400 Pa**



**NEW TECHNOLOGY:
HIEFF UP TO 20,97%**

Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 20.97%.

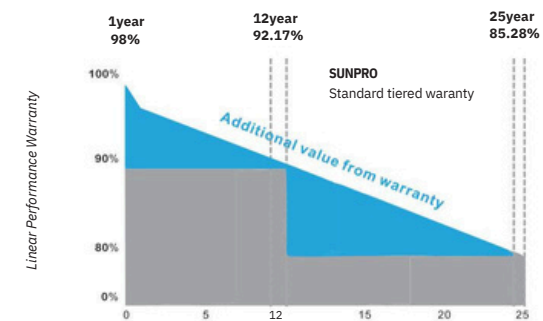


**PRODUCT WITH HIEFFBY
SUNPRO TECHNOLOGY**

SUNPRO combines cutting edge cell separation and innovative 10-busbar design with SUNPRO Technology.

Reliability & Certification

Product Guarantee:12-year
Linear Performance Warranty
12-year: 92.17% power output
25-year: 85.28% power output



Product Specification

Electrical parameters at standard test conditions
(STC:AM=1.5,1000W/m2,Cells Temperature 25°C)

Typical type	390W	395W	400W	405W	410W
Max power(Pmax)	320.1	324.1	329.1	334.1	339.1
Max power voltage(Vmp)	30.41	30.62	30.83	31.04	31.25
Max power current(Imp)	12.83	12.90	12.98	13.05	13.12
Open circuit voltage(Voc)	36.53	36.73	36.93	37.13	37.33
Short circuit current(Isc)	13.62	13.69	13.76	13.83	13.90
Module Efficiency(%)	19.95	20.20	20.46	20.72	20.97
Max system voltage	DC 1500v(TUV)/DC 1000v(TUV)				
Maximum Series Fuse Rating	25A				

SPxxx-108M10
Electrical parameters at NMOT test conditions
(NMOT: Irradiance 800W/m², Ambient Temperature 20°C,
AM 1.5, Wind Speed 1m/s)

Item	390W	395W	400W	405W	410W
Max power(Pmax)	317.4	321.2	325.4	329.2	333.1
Max power voltage(Vmp)	30.9	31.1	31.3	31.5	31.7
Max power current(Imp)	10.28	10.34	10.41	10.47	10.52
Open circuit voltage(Voc)	36.7	36.9	37.1	37.3	37.5
Short circuit current(Isc)	10.88	10.93	10.99	11.04	11.10

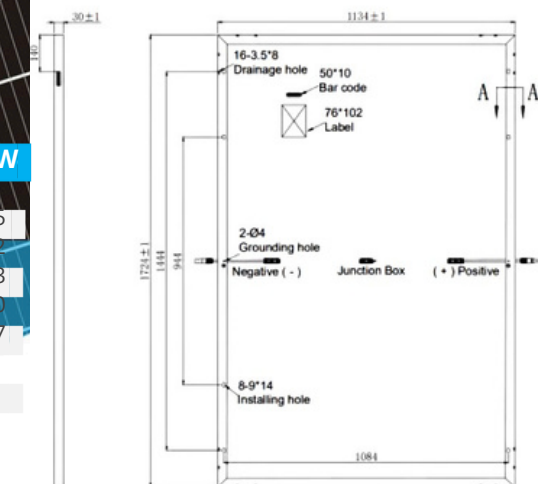
Mechanical Data

Item	Specification
Dimensions	1724x1134x30mm
Weight	21.5kgs
Front glass	3.2mm tempered glass
Output cables	4mm² symmetrical lengths
Connectors	1100mm
Cell type	MC4 compatible IP68
Number of cells	Mono-Crystalline PERC Half-Cell 9BB 91x182mm 108 cells

Temperature characteristics

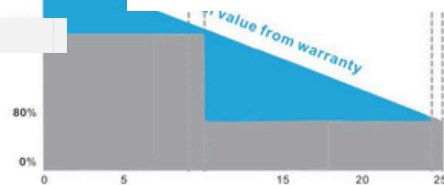
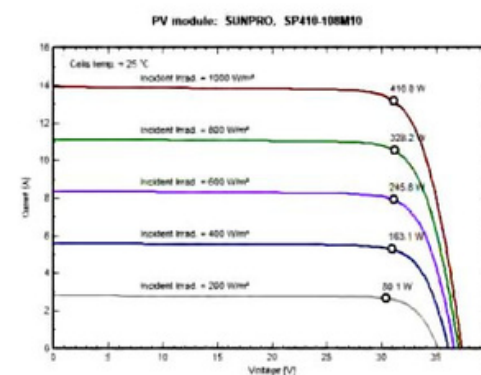
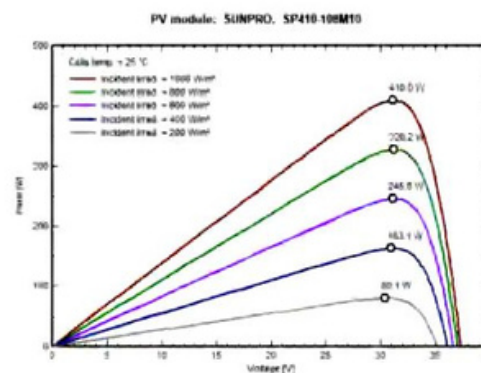
Item	Specification
Temp.Coeff.of Isc(TK Isc)	0.05% / °C
Temp.Coeff.of Voc(TK Vod)	-0.29% / °C
Temp.Coeff.of Pmax(TK Pmax)	-0.34% / °C
Operating temperature	-40 ~ +85°C
Normal operating cell temperature	44±2°C

Dimensions and Structure



14001 ISO 9001-V Curve

I-V characteristics at different irradiation



Packing Configuration

Item	Specification
Container	40'HQ
Pieces per pallet	72
Pallets per container	13
Pieces per container	936

Tests, Certifications and Warranties

Item	Specification
Standard tests	IEC 61215, IEC 61730, IEC 61701, IEC 62716, PPP 58042B
Certifications	TUV, AMMONIA AND SALT MIST CORROSION, ANTI-PID, CE,
Extreme wind and snow loads testing	WEEE, INMERTRO Withstand extreme wind(2400 Pascal) and snow loads(5400 Pascal)
Power tolerance	0 ~ ±3%
Junction box	IP68
Warranties	12 years product warranty and 25 years 85.28% of power

