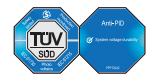


G12 HIEFF TWIN MONO

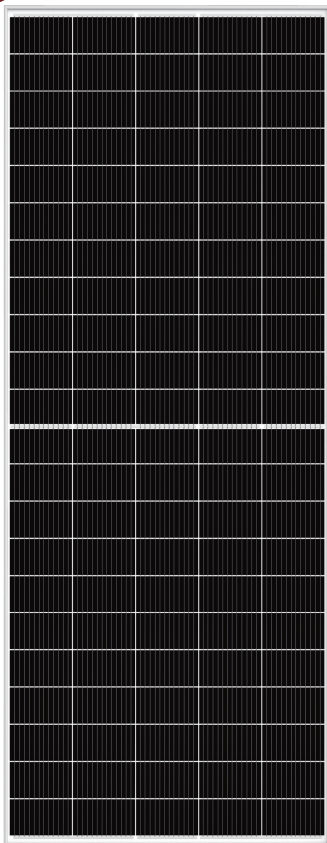
SPxxx-110M1 2
(xxx=530~555)
HIGH EFFICIENCY



ISO 14001

ISO 9001

ISO 45001



POWER TOLERANCE

0~+3%



WITHSTAND STRONG SNOW LOAD 5400 Pa/ WIND LOAD 2400 Pa



NEW TECHNOLOGY: HIEFF UP TO 21,20%

Higher yield per surface area,
lower BOS costs, higher power classes,
and an efficiency rate of up to 21.20%.

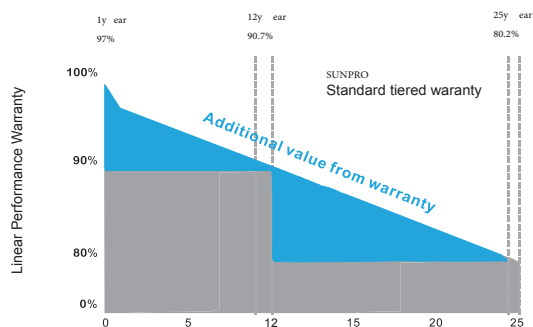


PRODUCT WITH HIEFF BY SUNPRO TECHNOLOGY

SUNPRO DUO combines cutting edge cell separation and innovative 12-busbar design with SUNPRO Technology.

Reliability & Certification

Product Guarantee: **12-year**
Linear Performance Warranty
12-year:90.7% power output
25-year:80.2% power output



Product Specification

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

Typical type	530W	535W	540W	545W	550W	555W
Max power(Pmax)	530	535	540	545	550	555
Max power voltage(Vmp)	30.8	30.99	31.19	31.39	31.59	31.79
Max power current(Imp)	17.22	17.27	17.32	17.36	17.41	17.46
Open circuit voltage (Voc)	37.09	37.29	37.49	37.69	37.89	38.09
Short circuit current (Isc)	18.32	18.37	18.42	18.47	18.52	18.57
Module Efficiency(%)	20.30	20.50	20.70	20.90	21.00	21.20
Max system voltage	DC 1500V _E TUV _E /1000V(UL)					
Maximum Series Fuse Rating	30A					

Mechanical Data

Item	Specification
Dimensions	2384×1096×35mm
Weight	28.6kgs
Front glass	3.2mm tempered glass
	4mm ²
Output cables	symmetrical lengths
	1100mm
Connectors	MC4 compatible IP68
Cell type	Mono Crystalline Silicon E
	105mm×210mm
Number of cells	110 cells in series(5*22)

Temperature Characteristics

Item	Specification
Temp.Coeff.of Isc(TK Isc)	0.049%/°C
Temp.Coeff.of Voc(TK Voc)	-0.27%/°C
Temp.Coeff.of Pmax(TK Pmax)	-0.35%/°C
Operating temperature	-40~+85°C
Normal operating cell temperature	44±2°C

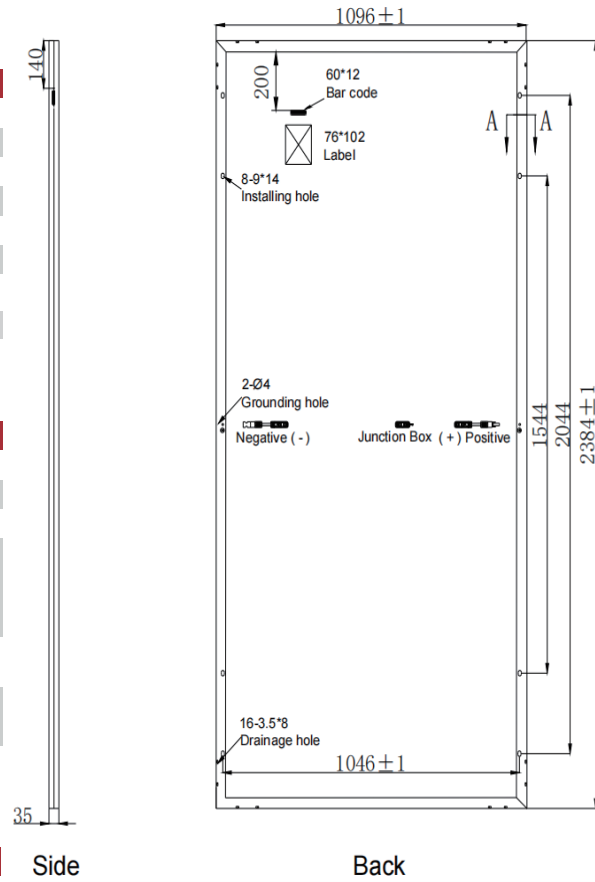
Packing Configuration

Item	Specification
Container	40'HQ
Pieces per container	31
Pallets per container	17
Pieces per container	527

Test, Certifications and Warranties

Item	Specification
Standard tests	IEC 61215, IEC 61730, IEC 61701, IEC 62716, PPP 58042B
System certs	ISO 9001, ISO14001, ISO45001
Certifications	TUV, AMMONIA AND SALT MIST CORROSION, ANTI-PID, CE, WEEE, INMERTRO
Extreme wind and snow loads testing	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 80% of power

Dimensions and Structure

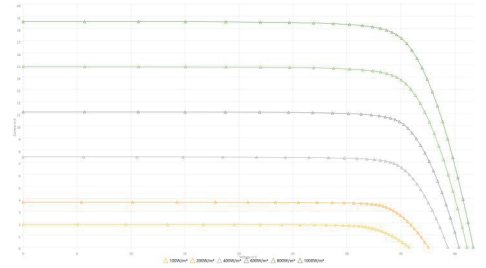


Side

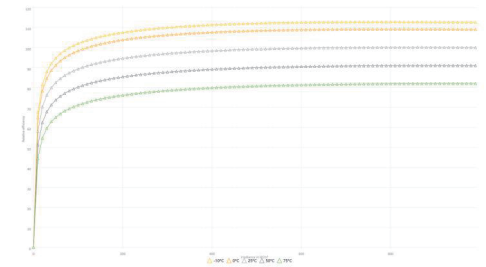
Back

I-V Curve

I-V characteristics at different irradiances



I-V characteristics at different temperature



G12 HIEFF TWIN MONO

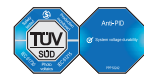
SPxxx-120M12
(xxx=585~605)
HIGH EFFICIENCY



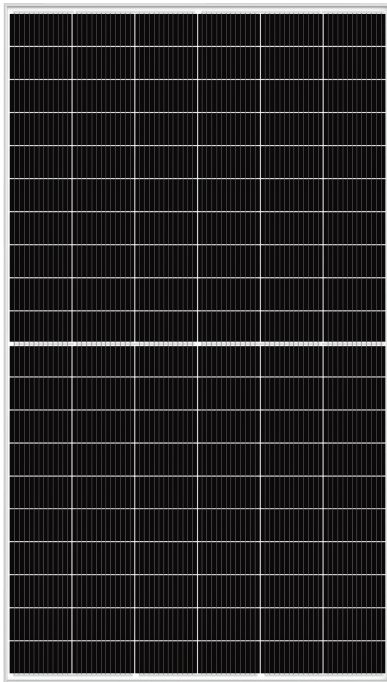
ISO 14001



ISO 9001



ISO 45001



POWER TOLERANCE

0~+3%



WITHSTAND STRONG SNOW LOAD 5400 Pa/ WIND LOAD 2400 Pa



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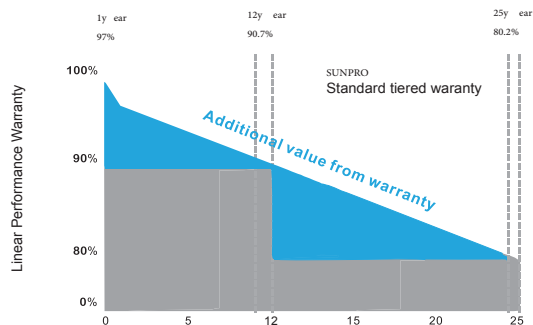


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Reliability & Certification

Product Guarantee: **12-year**
Linear Performance Warranty
12-year: 90.7% power output
25-year: 80.2% power output



Product Specification

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

Typical type	585W	590W	595W	600W	605W
Max power(Pmax)	585	590	595	600	605
Max power voltage(Vmp)	33.8	34.0	34.2	34.4	34.6
Max power current(Imp)	17.31	17.35	17.40	17.45	17.49
Open circuit voltage (Voc)	40.9	41.1	41.3	41.5	41.7
Short circuit current (Isc)	18.37	18.42	18.47	18.52	18.57
Module Efficiency(%)	20.67	20.85	21.02	21.20	21.38
Max system voltage	DC 1500V(TUV) / DC 1000V(TUV)				
Maximum Series Fuse Rating	30A				

Mechanical Data

Item	Specification
Dimensions	2172x1303x35mm
Weight	30.9kgs
Front glass	3.2mm tempered glass
	4mm ²
Output cables	symmetrical lengths
	1300mm
Connectors	MC4 compatible IP68
Cell type	Mono-Crystalline PERC Half-Cell
	105mmx210mm 12BB
Number of cells	120 cells in series

Temperature Characteristics

Item	Specification
Temp.Coeff.of Isc(TK Isc)	0.049%/°C
Temp.Coeff.of Voc(TK Voc)	-0.26%/°C
Temp.Coeff.of Pmax(TK Pmax)	-0.34%/°C
Operating temperature	-40~+85°C
Normal operating cell temperature	45±2°C

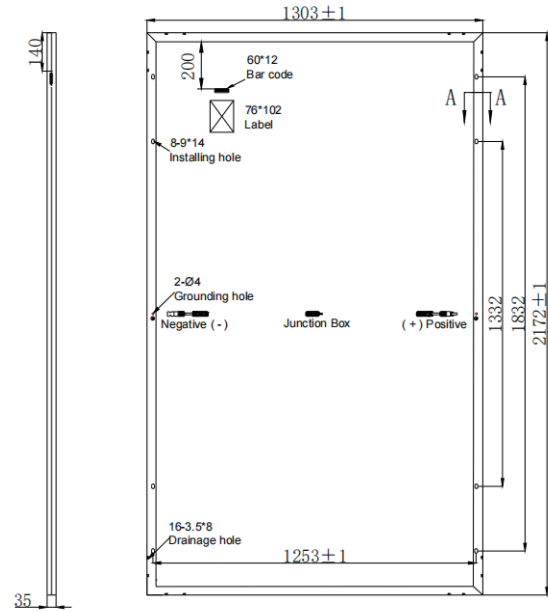
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Item	Specification
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Test, Certifications and Warranties

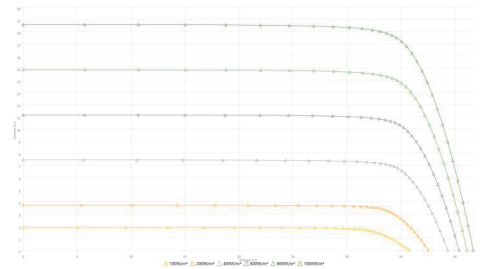
Item	Specification
Standard tests	IEC 61215, IEC 61730, IEC 61701, IEC 62716, PPP 58042B
System certs	ISO 9001, ISO14001, ISO45001
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Dimensions and Structure



I-V Curve

I-V characteristics at different irradiances



I-V characteristics at different temperature

