



M10 HIEFF TWIN MONO by SUNPRO

SPDGxxx-144M10

Double Glass

(xxx=520-550W)

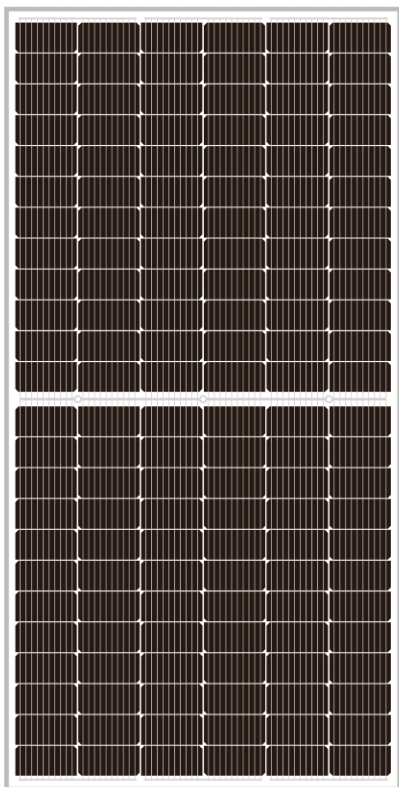
HIGH EFFICIENCY



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 21,28%

Higher yield per surface area,
lower BOS costs, higher power classes,
and an efficiency rate of up to 21.28%.

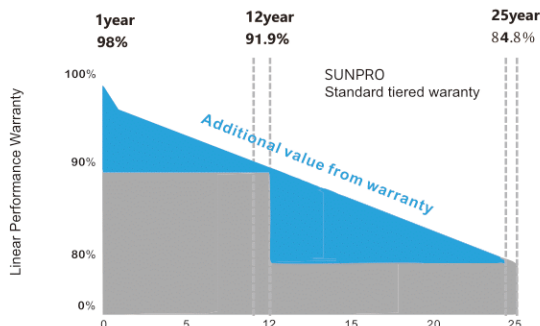


PRODUCT WITH HIEFF BY SUNPRO TECHNOLOGY

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: 91.9% power output
25-year: 84.8% power output



Product Specification

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

Typical type	520W	525W	530W	535W	540W	550W
Max power(Pmax)	520	525	530	535	540	550
Max power voltage(Vmp)	41.02	41.21	41.39	41.54	41.69	41.96
Max power current(Imp)	12.68	12.74	12.81	12.88	12.96	13.11
Open circuit voltage (Voc)	48.94	49.11	49.26	49.42	49.58	49.90
Short circuit current (Isc)	13.53	13.61	13.69	13.76	13.84	14.00
Module Efficiency(%)	20.12	20.31	20.51	20.70	20.89	21.28
Max system voltage	DC 1500V(TUV) / DC 1000V(TUV)					
Maximum Series Fuse Rating	30A					

Electrical parameters at NMOT test conditions

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

Item	520W	525W	530W	535W	540W	550W
Max power(Pmax)	422.6	426.5	429.9	434.6	439.0	446.8
Max power voltage(Vmp)	41.40	41.60	41.70	41.90	42.00	42.30
Max power current(Imp)	10.20	10.26	10.30	10.38	10.45	10.57
Open circuit voltage (Voc)	49.10	49.30	49.50	49.60	49.80	50.10
Short circuit current (Isc)	10.93	10.98	11.02	11.07	11.12	11.18

Electrical Characteristics with 15% Rear Side Power Gain

Item	520W	525W	530W	535W	540W	550W
Front power Pmax/W	520	525	530	535	540	550
Total power Pmax/W	598	604	610	615	621	633
Vmp/V(Total)	41.02	41.21	41.39	41.54	41.69	41.96
Imp/A(Total)	14.58	14.65	14.73	14.81	14.90	15.09
Voc/V(Total)	48.94	49.11	49.26	49.42	49.58	49.90
Isc/A(Total)	15.56	15.65	15.74	15.82	15.92	16.11

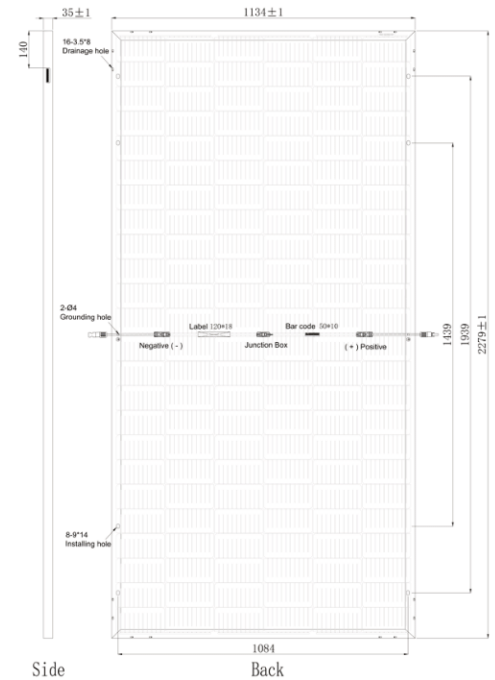
Mechanical Data

Item	Specification
Dimensions	2279x1134x35mm
Weight	34kgs
Glass	2.0mm+2.0mm, High Transmission, AR Coated Heat Strengthened Glass
	4mm ²
Output cables	symmetrical lengths 1300mm
Connectors	MC4 compatible IP68
Cell type	Mono-Crystalline PERC Half-Cell 10BB
Number of cells	144 cells in series

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 84.8% of power

Dimensions and Structure



Temperature Characteristics

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

Packing Configuration

Item	Specification
Container	40'HQ
Pieces per pallet	62
Pallets per container	10
Pieces per container	620

I-V Curve

