

M10 HIEFF TWIN MONO by SUNPRO

520-540

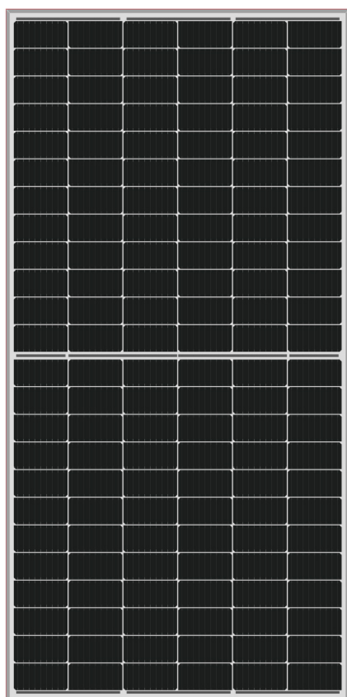
HIGH EFFICIENCY



ISO 14001

ISO 9001

ISO 45001



POWER TOLERANCE

0~+5W



WITHSTAND STRONG SNOW LOAD 5400 Pa/ WIND LOAD 2400 Pa



NEW TECHNOLOGY: HIEFF UP TO 20.90%

Higher yield per surface area,
lower BOS costs, higher power classes,
and an efficiency rate of up to 20.90 %.

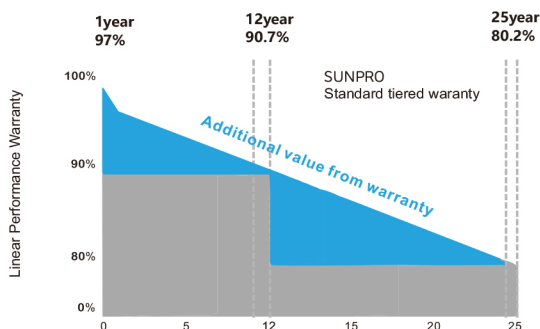


PRODUCT WITH HIEFF BY SUNPRO TECHNOLOGY

SUNPRO DUO combines cutting edge cell
separation and innovative 10~11-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	520W	525W	530W	535W	540W
Max power(Pmax)	520	525	530	535	540
Max power voltage(Vmp)	41.1	41.2	41.4	41.5	41.7
Max power current(Imp)	12.66	12.75	12.81	12.90	12.95
Open circuit voltage (Voc)	48.9	49.1	49.2	49.4	49.5
Short circuit current (Isc)	13.57	13.66	13.71	13.78	13.85
Module Efficiency(%)	20.12	20.32	20.51	20.70	20.90
Max system voltage	DC 1500V(TUV) / DC 1000V(TUV)				
Maximum Series Fuse Rating	20A				

Mechanical Data

Item	Specification
Dimensions	2279x1134x35mm
Weight	32.5kgs
Front glass	3.2mm tempered glass
	4mm ²
Output cables	symmetrical lengths
	350mm
Connectors	MC4 compatible IP68
Cell type	Mono-Crystalline PERC Half-Cell
	91mmx182mm 10BB, 11BB
Number of cells	144 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

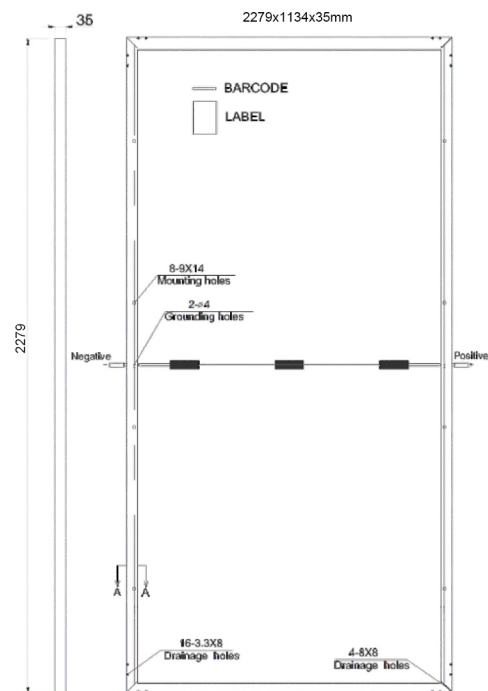
Packing Configuration

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

Test, Certifications and Warranties

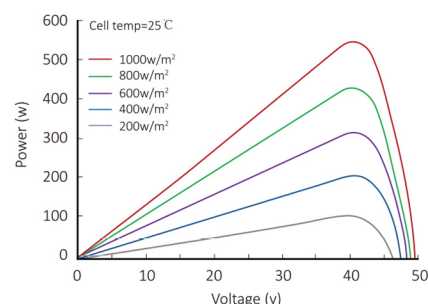
Item	Specification
Standard tests	IEC 61215, IEC 61730, IEC 61701, IEC 62716, PPP 58042B
System certs	ISO 9001, ISO14001, ISO45001
Certifications	TUV, AMMONIA AND SALT MIST CORROSION, ANTI-PID, CE, WEEE, INMERTRO
Extreme wind and snow loads testing	Withstand extreme wind(2400 Pascal) and snow loads(5400 Pascal)
Power tolerance	0~+5W
Junction box	IP68
Warranties	12 years product warranty and 25 years 80% of power

Dimensions and Structure



I-V Curve

I-V characteristics at different irradiances



I-V characteristics at different temperature

