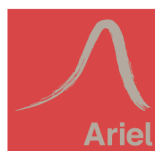


Tier1

BloombergNEF



Lloyd's Syndicate 1910



ISO14001

ISO9001

ISO45001



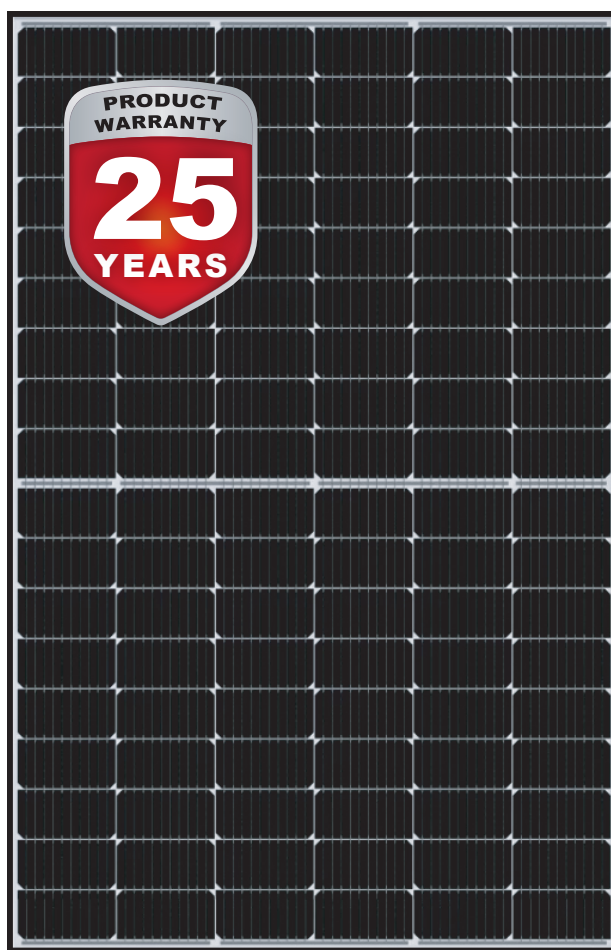
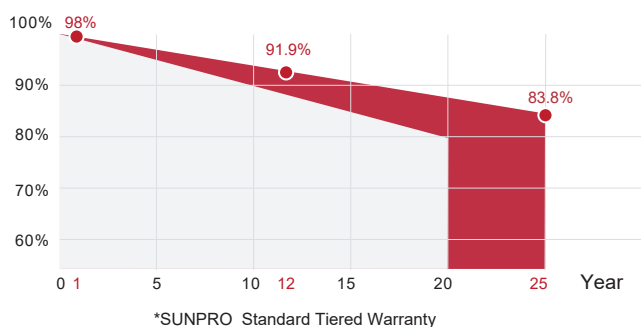
M10 HIEFF TWIN MONO

SPxxx-108M10

- Black frame (xxx=390~415W)
- Silver frame
- Full black
- Bifacial

25 Yr Product Warranty | 25 Yr Power Warranty

■ SUNPRO Standard (Additional value from 25-year warranty)
 ■ Industry Standard



WARRANTY & GUARANTEE

25 year product warranty +
 Linear output power guarantee
 12 years: 91.9% power output
 25 years: 83.8% power output



WITHSTAND STRONG

Snow load 5400Pa
 Wind load 2400Pa



R&D AND PRODUCTION

Advanced production line with leading solar cell cutting process and multi-busbar design with innovative SUNPRO Technology.



HIGH EFFICIENCY

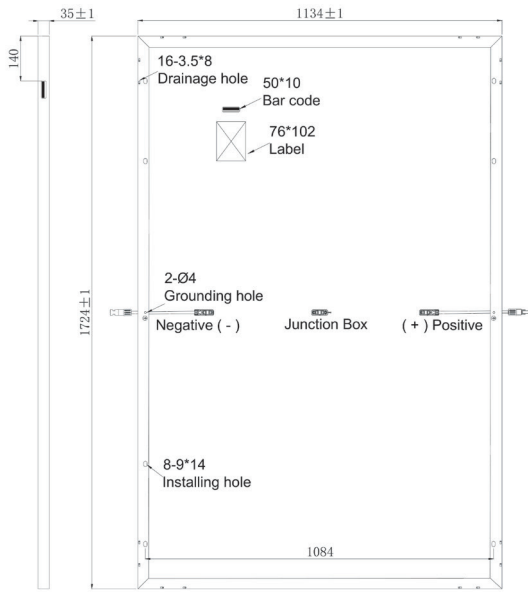
Efficiency of up to 21.23%, excellent low light performance, and higher power output in suboptimal conditions (e.g haze, overcast, etc.)

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

Typical type

	390W	395W	400W	405W	410W	415W
Max power(Pmax)	390	395	400	405	410	415
Max power voltage(Vmp)	30.41	30.62	30.83	31.04	31.25	31.47
Max power current(Imp)	12.83	12.90	12.98	13.05	13.12	13.19
Open circuit voltage(Voc)	36.53	36.73	36.93	37.13	37.33	37.53
Short circuit current(Isc)	13.62	13.69	13.76	13.83	13.90	13.97
Module Efficiency(%)	21.88	20.20	20.46	20.72	20.97	21.23
Max system voltage	DC 1500V(TUV)					
Maximum Series Fuse Rating	25A					

DIMENSIONS AND STRUCTURE



Side

Back

Electrical parameters at NMOT test conditions

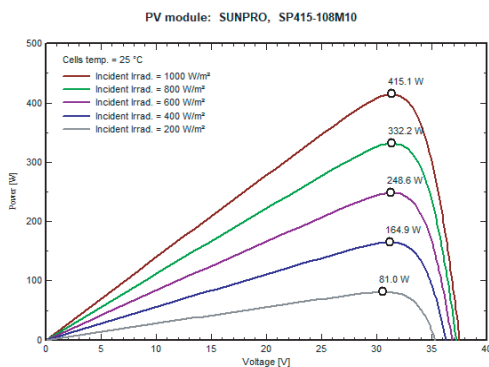
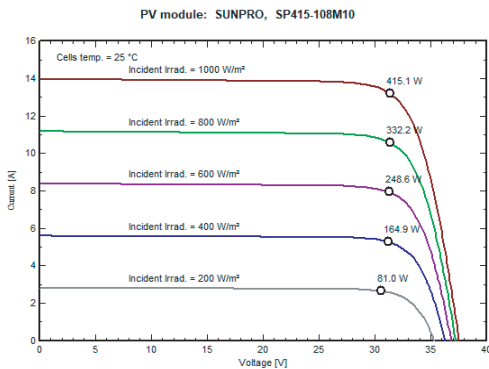
(Irradiance 800W/m², Ambient Temperature 20°C, AM 1.5, Wind Speed 1m/s)

Typical type	390W	395W	400W	405W	410W	415W
Max power(Pmax)	317.4	321.2	325.4	329.2	333.1	337.1
Max power voltage(Vmp)	30.90	31.10	31.30	31.50	31.70	31.90
Max power current(Imp)	10.28	10.34	10.41	10.47	10.52	10.58
Open circuit voltage(Voc)	36.70	36.90	37.10	37.30	37.50	37.70
Short circuit current(Isc)	10.88	10.93	10.99	11.04	11.10	11.16

Mechanical Data

Dimensions	1724x1134x35mm
Weight	21.5 kg
Glass	3.2mm tempered glass
Output cables	4mm ² , symmetrical lengths 1100mm
Cell type	Mono-Crystalline PERC, 10BB, 182x91mm
Number of cells	108 cells (Half-Cell)
Connectors	Taizhou Chuangda Electronic Co.,Ltd. Type: PV-TT02,1500V DC, 43A, -40 to 85° C, IP68(1m,1h)

I-V CHARACTERISTICS AT DIFFERENT IRRADIATION



Temperature Characteristics

Temp.Coeff.of Isc(TK Isc)	0.048%/°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

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	TUV, CE, WEEE, INMETRO FIRE CERTIFICATE C1
Extreme wind and snow loads testing	Withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal)
Power tolerance	-3%~+3%
Junction box	IP 68
Warranties	25 years product warranty and 25 years power warranty (83.8% power output at 25 years)
Fire class rating	Class C