

**FEOC
FREE**

Sunpro **Max** Series

N-Type 210R High Efficiency Bifacial Module

Module efficiency

23.51%

Power Output

620-635W

· Mesh transparent



**Better leveled
cost of energy**



**Better high
temperature stability**

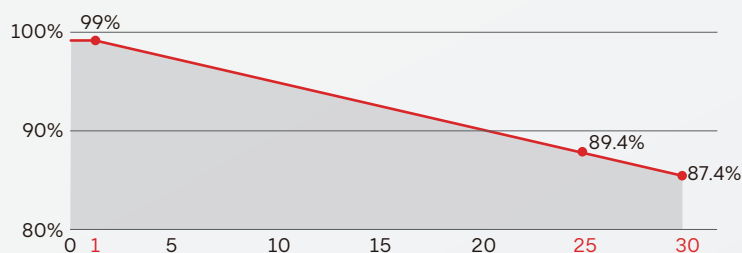


**Improved low-light
performance**



**Excellent
bifacial performance**

Linear performance guarantee for 30 years



WARRANTY

Extended warranty is available at additional cost

Quality
Guarantee

**15
years**

Power
Warranty

**30
years**

CERTIFICATE



ELECTRIC CHARACTERISTICS

SPDG (620/635W)-N132R12

Model of modules	SPDG620-N132R12		SPDG625-N132R12		SPDG630-N132R12		SPDG635-N132R12	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Power (Pmax/W)	620.00	469.30	625.00	473.5	630.00	477.60	635.00	481.70
Maximum power voltage (Vmp)	41.20	38.70	41.45	39.00	41.70	39.20	41.95	39.40
Maximum power current (Imp)	15.05	12.12	15.08	12.15	15.11	12.18	15.14	12.22
Open circuit voltage (Voc)	49.25	46.70	49.49	47.00	49.73	47.20	49.97	47.50
Short circuit current (Isc)	15.92	12.82	15.96	12.85	15.99	12.88	16.03	12.91
Module efficiency	22.95%		23.14%		23.32%		23.51%	

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

NMOT (Irradiance 800W/m², Ambient Temperature 20°C, AM1.5, Wind Speed 1m/s)

ELECTRICAL CHARACTERISTICS WITH 15% REAR SIDE POWER GAIN

Front power Pmax/W	713.00	718.75	724.50	730.25
Maximum power voltage (Vmp)	41.20	41.45	41.7	41.95
Maximum power current (Imp)	17.31	17.34	17.37	17.41
Open circuit voltage (Voc)	49.25	49.49	49.73	49.97
Short circuit current (Isc)	18.31	18.35	18.39	18.43

STRUCTURAL CHARACTERISTICS

Module size (L*W*H)	2382x1134x30mm(93.78x44.65x1.18in)
Weight	32.4kg(71.43lb)
Cell	132 cells, N type Mono-Crystalline , 182.2mm×105 mm(7.17in×4.13in)
Front glass	2.0mm , Anti-Reflection Coating
Back glass	2.0mm , Heat Strengthened Glass
Frame	Anodized aluminum alloy
Junction box	IP68 , 3 bypass diodes
Output wire	4mm ²
Wire length	Line length 1300mm(51.18in)/Customized
Connector	Stäubli MC4
Packing Specification	36 pcs/Pallet ; 720 pcs/40' HQ

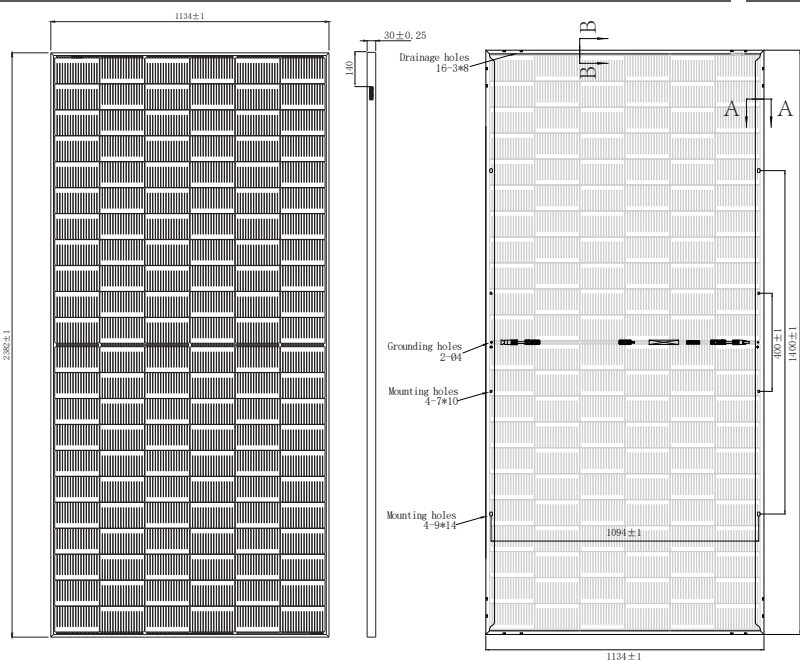
OPERATING PARAMETERS

Power tolerance (W)	(0~+5W)
Maximum system voltage (V)	1500V
Maximum rated fuse current (A)	30A
Current operating temperature (C)	-40~+85°C
Mechanical load	+5400Pa/-2400Pa

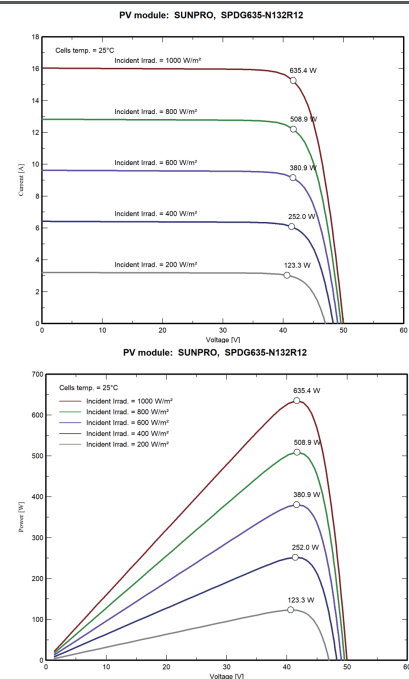
TEMPERATURE CHARACTERISTICS

Temp. Coeff. of Isc (TK Isc)	0.045% / °C
Temp. Coeff. of Voc (TK Voc)	-0.25% / °C
Temp. Coeff. of Pmax (TK Pmax)	-0.30% / °C
Normal Operating Cell Temperature	45±2°C

MODULE DIMENSIONS(MM)



I-V CHARACTERISTICS AT DIFFERENT IRRADIATION



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*All data may have a lag, for reference only. Sunpro has the final right of interpretation.