YH SUNPRO POWER

Tier1
BloombergNEF
Power the future

TOPCon 182 BIFACIAL

585-600W

High efficiency bifacial modules



Module effiency

23.22%

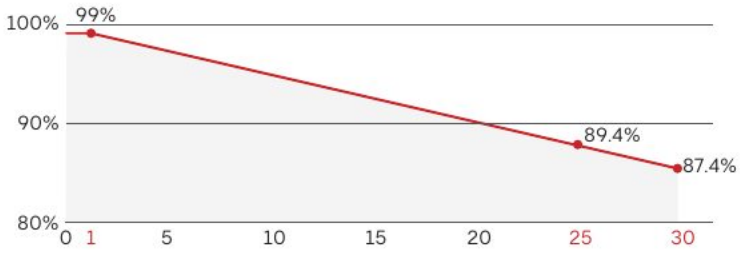
Better levelized cost of energy

Better high temperature stability

Improved low-light performance

Excellent bifacial performance

Linear performance guarantee for 30 years



WARRANTY

Quality Guarantee **15** years

Power Warranty **30** years

CERTIFICATE

www.sunpropower.com

ELECTRIC CHARACTERISTICS

SPDG (585/600W)-N144M10

Model of modules	SPDG585-N144M10		SPDG590-N144M10		SPDG595-N144M10		SPDG600-N144M10	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Power (Pmax/W)	585	437.30	590	441.00	595	444.60	600	448.4
Maximu power current (Vmp)	42.72	39.90	42.87	40.00	43.03	40.20	43.18	40.3
Maximu power current (Imp)	13.7	10.96	13.77	11.02	13.83	11.07	13.90	11.13
Open circuit voltage (Voc)	51.58	48.30	51.7	48.40	51.84	48.50	51.97	48.7
Short circuitcurrent (Isc)	14.41	11.61	14.48	11.67	14.55	11.72	14.62	11.78
Module efficiency	22.64%		22.83%		23.02%		23.22%	

STC (Electrical parameters at standard test conditions (STC:AM=1.5, 1000W/m² ,Cells Temperature25°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	672.75	678.50	684.25	690.00
Maximu power voltage (Vmp)	42.72	42.87	43.03	43.18
Maximu power current (Imp)	15.75	15.83	15.90	15.98
Open circuit voltage (Voc)	51.58	51.70	51.84	51.97
Short circuitcurrent (Isc)	16.57	16.65	16.73	16.81

STRUCTURAL CHARACTERISTICS

Module size (L*W*H)	2278x1134x30mm
Weight	31kg
Cell	144 cells,N type Mono-Crystalline , 182mm×91mm
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	4mm²
Wire length	Line length 1300mm/customized
Connector	MC4 Compatible
Packing Specification	36 pcs/Pallet ; 720 pcs/40' HQ

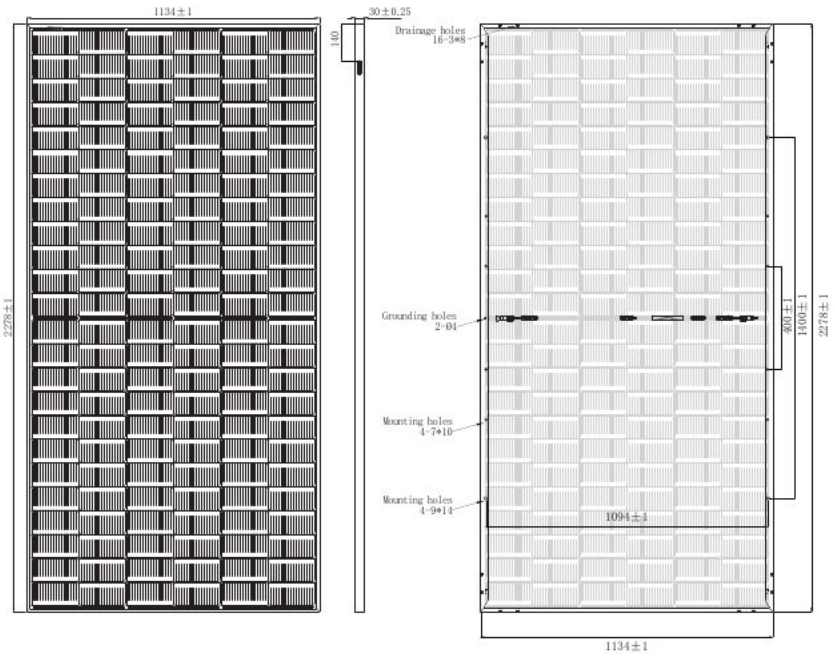
OPERATING PARAMETERS

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

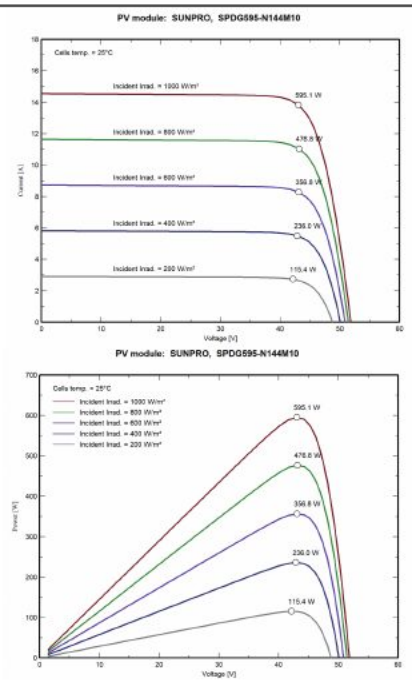
TEMPERATURE CHARACTERISTICS

Temp. Coeff. of Isc (TK Isc)	0.046% / °C
Temp. Coeff. of Voc (TK Voc)	-0.25% / °C
Temp. Coeff. of Pmax (TK Pmax)	-0.30% / °C
Normal Operting Cell Temperature	45±2°C

MODULE DIMENSIONS(MM)



I-V CHARACTERISTICS AT DIFFERENT IRRADIATION



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*The above parameters are for reference only, and the actual parameters of the factory shall prevail