

SYMN120TS series

N-TYPE SINGLE GLASS MONO-FACIAL MODULE

480W Maximum Power Output

22.2% Maximum Module Efficiency

0~+3% Power Output Tolerance

Lower LCOE

N-TOPCon technology: lower degradation, ≥ 30 years life and lower BOS cost.

Better Temperature Coefficient

lower temperature coefficient and higher power generation under high -temperature conditions.

PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.

ZERO LID (Light Induced Degradation)

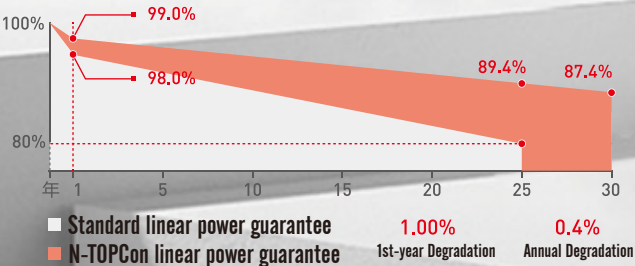
N-type solar cell has no LID naturally which can increase power generation.

Better Low Light Performance

Higher power output even under low-light environments like on cloudy or foggy days.

Enhanced Mechanical Load

Heavy snow load up to 5400Pa, wind load up to 2400Pa.

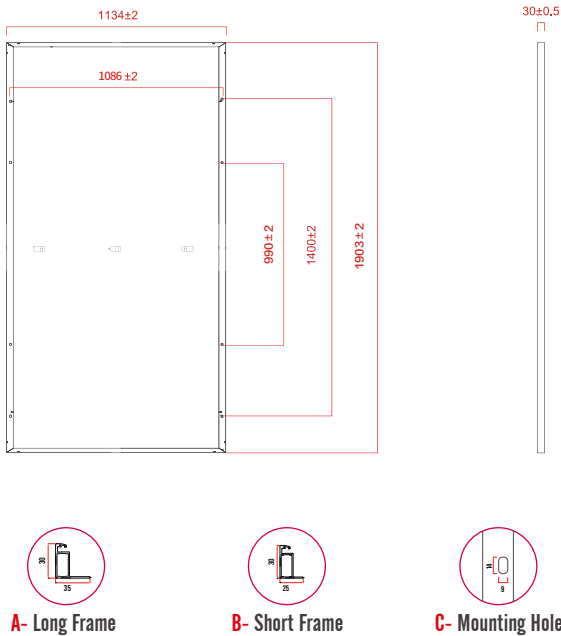


12 Years Product Material & Workmanship 30 Years Linear Performance Warranty

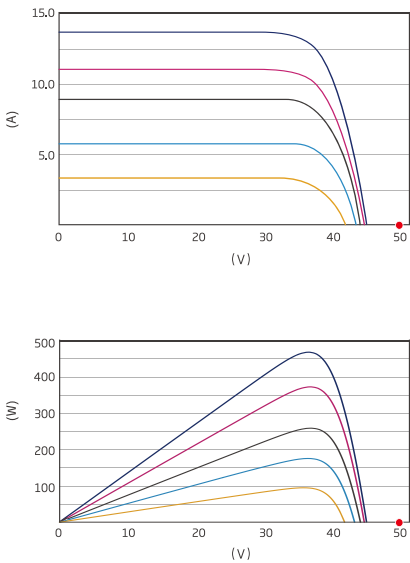


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Engineering Drawing(unit: mm)



Characteristic Curves (SYMN120TS-470W)



SPECIFICATIONS	STC*					NOCT*				
Testing Condition	Front Side					Front Side				
(Pmax) (W) Peak Power(Pmax)(W)	460	465	470	475	480	346	350	353	357	361
MPP Voltage(Vmp)(V)	34.72	34.89	35.05	35.21	35.38	32.60	32.77	32.94	33.1	33.27
MPP Current(Imp)(A)	13.25	13.33	13.41	13.49	13.57	10.61	10.67	10.73	10.79	10.85
Open Circuit Voltage(Voc)(V)	42.05	42.22	42.38	42.54	42.71	39.94	40.10	40.25	40.41	40.57
Short Circuit Current(Isc)(A)	13.99	14.07	14.15	14.23	14.31	11.29	11.36	11.42	11.49	11.55
Module Efficiency(%)	21.3%	21.5%	21.8%	22.0%	22.2%	*STC: Irradiance 1000 W/m², Cell Temperature 25°C, AM1.5 *NOCT: Irradiance 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s				

Operating Properties		Temperature Coefficient		Packaging Configuration	
Operating Temperature (°C)	-40℃~+85℃	Temperature Coefficient of Pmax	-0.30%/°C	Packing Type	40'HQ Container
Maximum System Voltage (V)	1500V (IEC)	Temperature Coefficient of Voc	-0.25%/°C	Pcs/Pallet	36 pcs
Maximum Series Fuse Rating (A)	25A	Temperature Coefficient of Isc	0.046%/°C	Pallet/Container	Pal24 trayslet/container
Power Tolerance (W)	0~+5W	Nominal Operating Cell Temperature (NOCT)	45±2°C	Pcs/Container	864 pcs

Mechanical Properties					
Cell Size	182.00mm*91.00mm	Weight	24.2kg(53.35 lbs)	Junction Box	IP68 Rated, 1500VDC,3 bypass diodes
Number of Cells	120 (2*60)	Front Glass	32mm,Anti-Reflection Coating Hight Transmission,Low Iron,Tempered Glass	Length of Cable	TUV 1×4.0mm² (+): 410mm· (-):290mm or customized Length
Module Dimension	1903mm*1134mm*30mm (74.92x44.65x1.18inch)	Frame	Anodized Aluminium Alloy	Mounting holes	1400 mm,990 mm