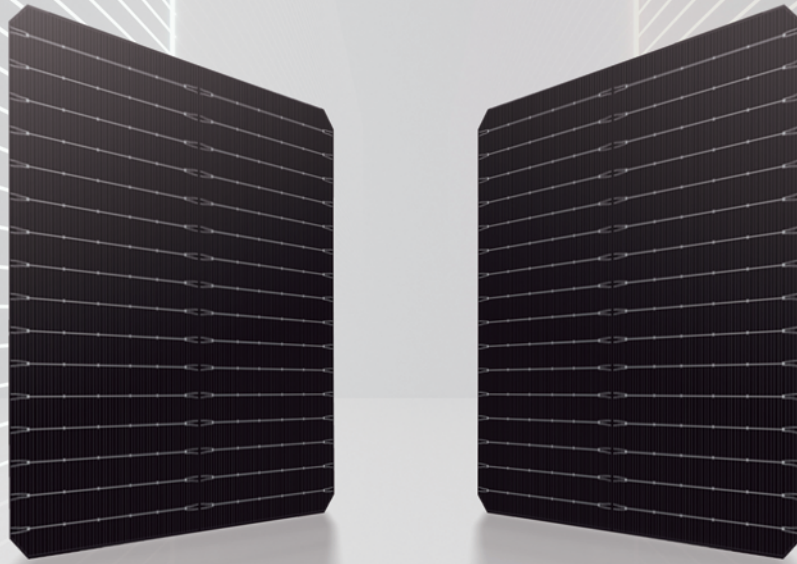


SYCN182T1634

# N-TOPCon



## Highlight



**High efficiency:**

Eff $\geq$ 26%; Bifaciality $\geq$ 80%



**N-type wafer:**

Low degradation ,no LID



**Low temperature coefficient:**

TkPower $\geq$ -0.29%/C



**Low CTM loss:**

More suitable for high module power



**PID Resistance:**

Excellent anti-PID performance



**Excellent performanc at low intensity:**

Relative conversity efficiency  $\geq$ 97% at 200W/m<sup>2</sup>

**Characteristic:**

Model: SYCN182T1634044 Dimension: 182.2x183.75 $\pm$ 0.25mm,  $\Phi$ 256 $\pm$ 0.35mm

Thickness: 130 $\pm$ 15 $\mu$ m Front: 16BB Rear: 16BB



The TUV certificate holder is Sany Silicon Energy (Zhuzhou) Co., Ltd.  
Made in China

Version:SYMN202311 Specifications included in this manual are subject to change without notice.

# TOPCon solar cell

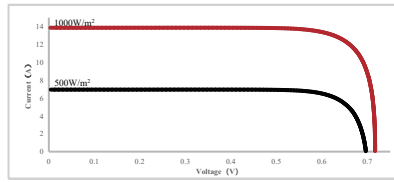
## Temperature Coefficients

TkCurrent [%/ °C]	+0.046
TkVoltage [%/ °C]	-0.26
TkPower [%/ °C]	-0.29

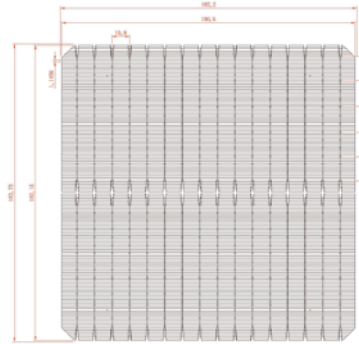
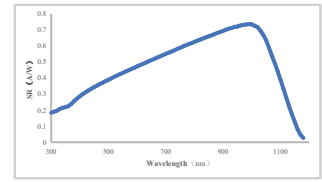
## Product Features

Dimension	182.2x183.75±0.25mm, Ø256±0.35mm
Cell Thickness	130±15µm
Front side(+)	Silicon nitride coating 0.018mm wide busbars,16 busbars and 160 finger
Backside(-)	Silicon nitride coating 0.018mm wide busbars,16 busbars and 190 finger

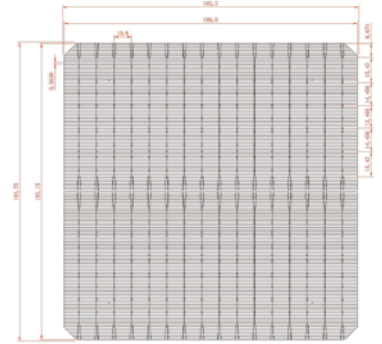
## IV-Curve



## Spectral Response



Front side



Rear side

## Electrical Characteristics

Eff(%)	Pmpp(W)	Impp(A)	Vmpp(V)	Voc(V)	Isc(A)	FF(%)
26.4	8.84	13.249	0.6670	0.7328	13.995	86.16
26.3	8.80	13.219	0.6659	0.7320	13.992	85.95
26.2	8.77	13.203	0.6642	0.7317	13.967	85.81
26.1	8.74	13.176	0.6630	0.7314	13.981	85.43
26.0	8.70	13.158	0.6614	0.7306	13.958	85.34
25.9	8.67	13.153	0.6591	0.7296	13.967	85.06
25.8	8.64	13.134	0.6575	0.7285	13.975	84.82
25.7	8.60	13.115	0.6560	0.7282	13.972	84.56
25.6	8.57	13.117	0.6533	0.7278	13.953	84.39
25.5	8.54	13.092	0.6521	0.7272	13.957	84.11
25.4	8.51	13.068	0.6512	0.7269	13.954	83.90
25.3	8.48	13.074	0.6482	0.7259	13.955	83.66
25.2	8.44	13.026	0.6481	0.7254	13.946	83.45
25.1	8.42	13.000	0.6479	0.7246	13.938	83.39
25.0	8.39	12.982	0.6463	0.7234	13.924	83.29
24.9	8.36	12.970	0.6448	0.7225	13.912	83.20
24.8	8.31	12.975	0.6407	0.7213	13.910	82.86

