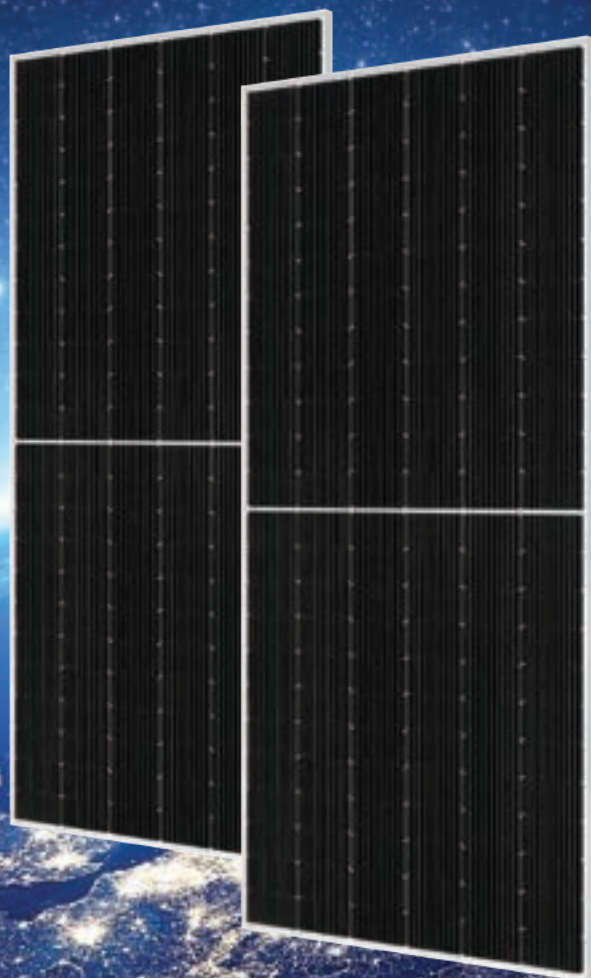


S..CO., LTD.

**530~550W**  
**Single Glass**  
**182mm Mono**  
**Half-Cut**  
**PERC Cells**



**530~550W**

POWER RANGE

**0~+5W**POWER  
TOLERANCE**21.3%**MAX. MODULE  
EFFICIENCY**≤ 2.0%**FIRST YEAR  
POWER DEGRADATION**≤ 0.45%**YEAR 2-30  
POWER DEGRADATION

## Electrical Specifications

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25° C, AM=1.5

Rated output (P <sub>mpp</sub> / Wp)	SNE-BH144M-530	SNE-BH144M-535	SNE-BH144M-540	SNE-BH144M-545	SNE-BH144M-550
Rated voltage (V <sub>mpp</sub> / V)	41.48	41.77	42.06	42.35	42.64
Rated current (I <sub>mpp</sub> / A)	12.78	12.81	12.84	12.87	12.90
Open circuit voltage (V <sub>oc</sub> / V)	49.28	49.51	49.75	49.98	50.22
Short circuit current (I <sub>sc</sub> / A)	13.57	13.60	13.63	13.66	13.70
Module efficiency	20.5%	20.7%	20.9%	21.1%	21.3%

NMOT: Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20° C, AM=1.5, Wind Speed 1m/s

Rated output (P <sub>mpp</sub> / Wp)	401.1	404.8	408.6	412.4	416.2
Rated voltage (V <sub>mpp</sub> / V)	38.47	38.74	39.01	39.28	39.55
Rated current (I <sub>mpp</sub> / A)	10.43	10.45	10.47	10.50	10.52
Open circuit voltage (V <sub>oc</sub> / V)	46.52	46.74	46.96	47.18	47.40
Short circuit current (I <sub>sc</sub> / A)	10.43	10.89	10.92	10.94	10.97

## Electrical Specifications (Integrated power)

P <sub>mpp</sub> gain	P <sub>mpp</sub> / Wp	V <sub>mpp</sub> / V	I <sub>mpp</sub> / A	V <sub>oc</sub> / V	I <sub>sc</sub> / A
5%	567	41.46	13.68	49.60	14.55
10%	594	41.46	14.33	49.60	15.25
15%	621	41.47	14.97	49.61	15.94
20%	648	41.47	15.63	49.61	16.63
25%	675	41.48	16.27	49.62	17.33

Electrical characteristics with different rear power gain (reference to 540W)

## Temperature Ratings (STC)

Temperature coefficient (P <sub>mpp</sub> )	-0.35% / ° C,	No. of diodes	3
Temperature coefficient (I <sub>sc</sub> )	+0.045% / ° C	Junction box IP rating	IP 68
Temperature coefficient (V <sub>oc</sub> )	-0.27% / ° C	Max. series fuse rating	30 A
Nominal module operating temperature (NMOT)	41±2 ° C	Max. system voltage (IEC/UL)	1500V <sub>DC</sub>

## Operating Parameters

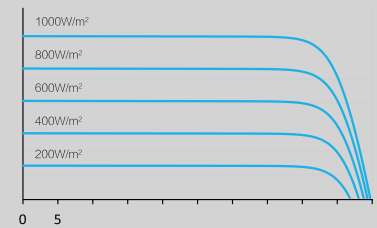
## Mechanical Specifications

Outer dimensions (L x W x H)	2278 x 1134 x 33 mm
Cell Type	PERC Mono crystalline 182 x 91 mm
No. of cells	144 (6*24)
Frame technology	Anodized aluminium alloy
Module weight	27.5 kg (60.627 lbs)
Front glass	3.2 mm White TPT
Cable Length (Including Connector)	4.0 mm(12AWG) 2, Portrait:300mm(+)/400mm(-); Or customized MC4 Compatible
① Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back)
Connector type (IEC/UL)	HCB40 / MC4-EVO2 (optional)
Packing unit	33 pcs / box (Subject to sales contract)
Modules per 40' HQ container	660 pcs

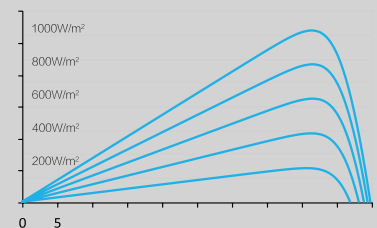
① Refer to Shengtian installation manual or contact technical department.  
Maximum Mechanical Test Load=1.5×Maximum Mechanical Design Load.

## Curve

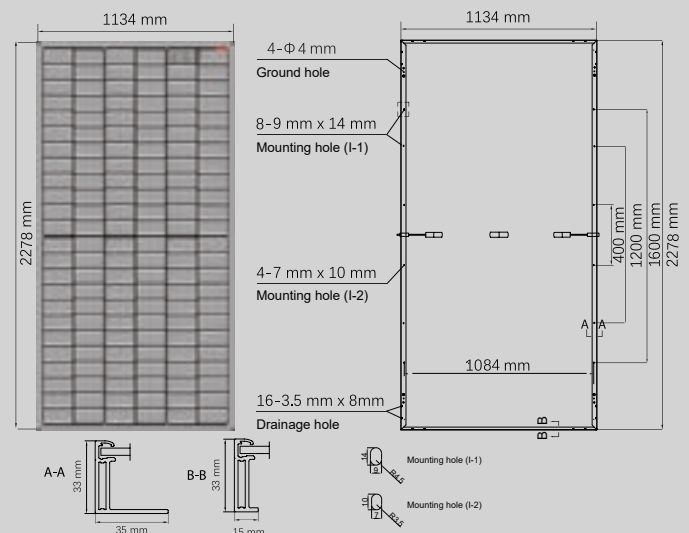
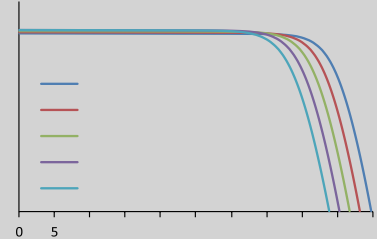
Current - Voltage (540W)

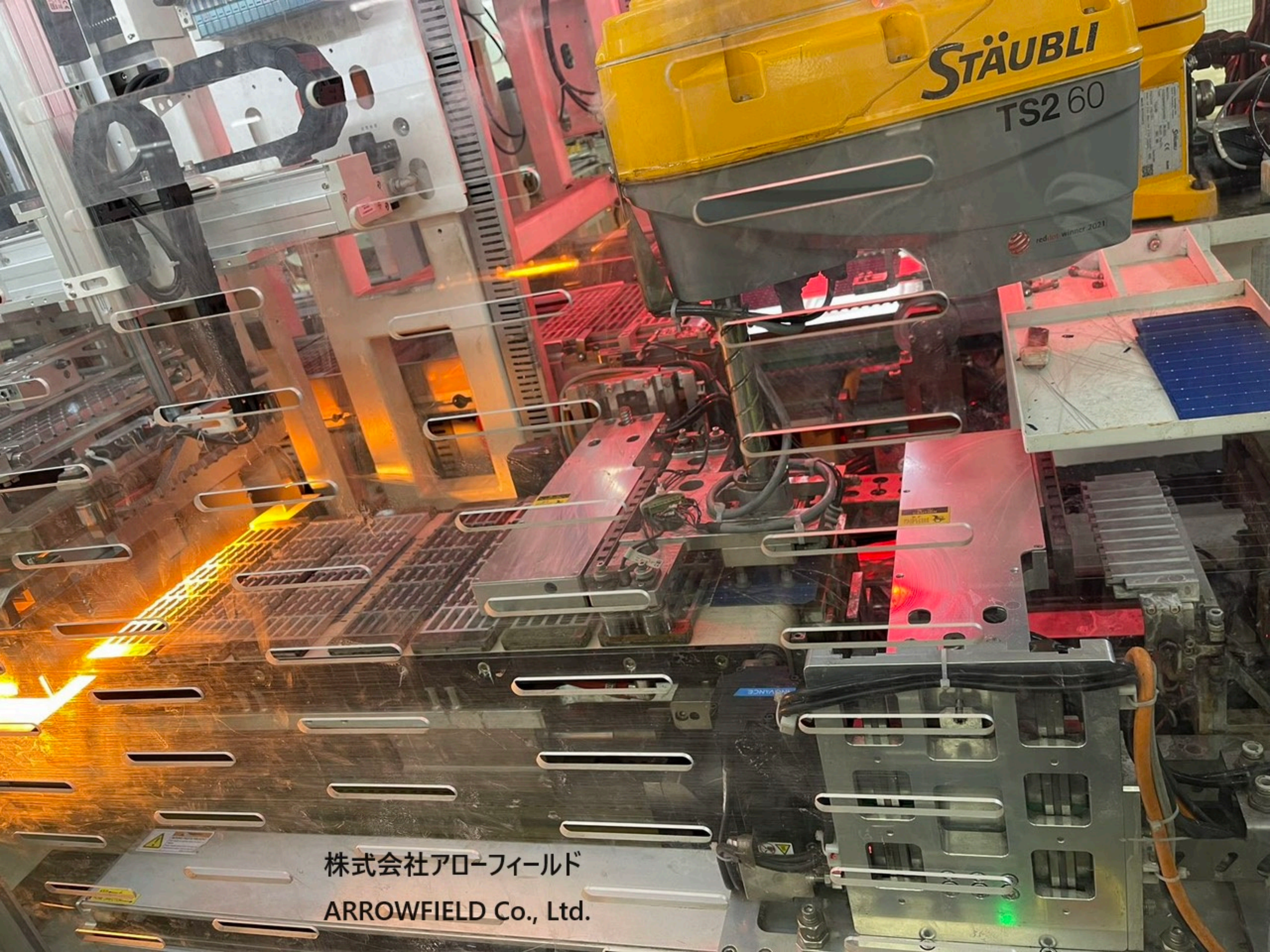


Power - Voltage (540W)



Current - Voltage (540W)





**STÄUBLI**  
TS2 60

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