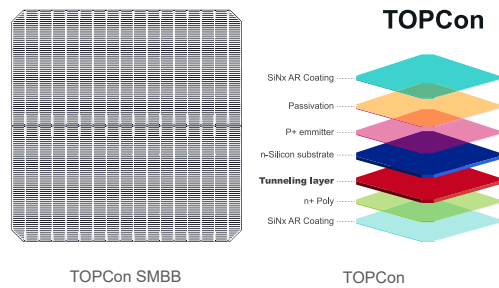




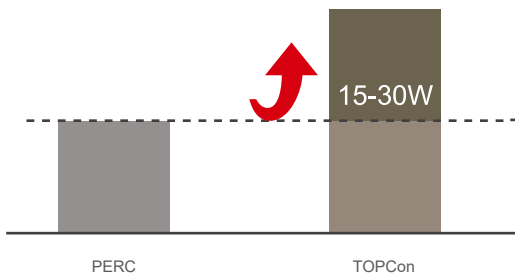
High Efficiency N-Type TOPCon PV Module Advantages

Half-Cell TOPCon PV Series



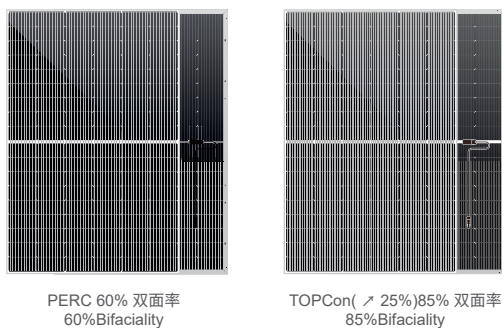
SMBB Technology

- Reduce the current transmission distance, reduce grid line shielding, and improve optical utilization
- SMBB technology combined with round wire ribbon can increase the utilization rate of incident light by 70%, and increase the power by 1-1.5%



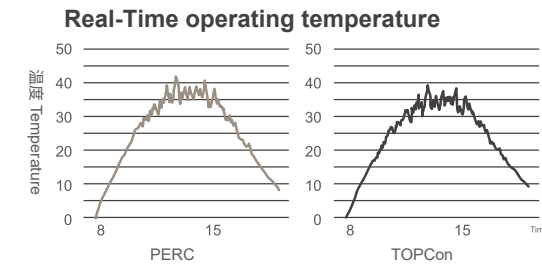
Higher Power

- For the same module type, the power of N-type modules is 15-30W higher than that of P-type modules



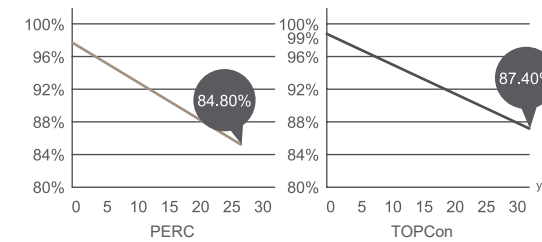
85%Bifaciality

- For the same module type, the double-sided rate of N-type modules is 25% higher than that of P-type modules



Lower Temperature Coefficient

- The temperature coefficient of P-type PV module is $-0.34\%/^{\circ}\text{C}$
- N-type module optimized temperature coefficient to $-0.29\%/^{\circ}\text{C}$
- Power generation is particularly prominent in high temperature environments



Better Power Guarantee

- N-type modules decay 1% in the first year (P-type 2%)
- Power warranty for 30 years
- After 30 years, the output power is not lower than 87.4% of the initial power

30 Power Warranty

$\leq 1\%$

First year degradation

-0.4%

Linear degradation



TOPCon MONOFACIAL



SL-410-430M10T 410~430 Watt

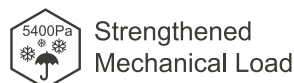
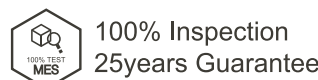
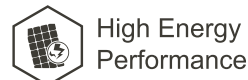
182mm 16BB 108Cells All Black
TOPCon Mono Half Cell PV-Module Series



Materials and workmanship warranty

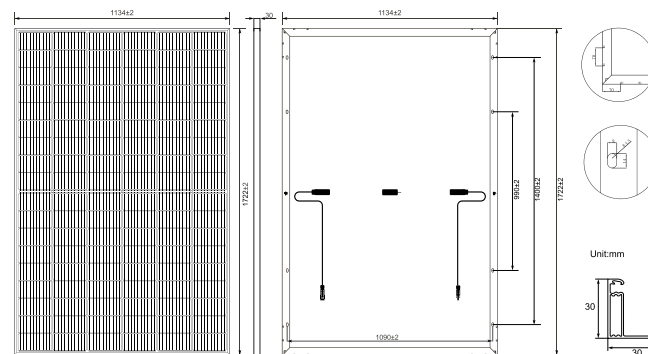


Linear power warranty

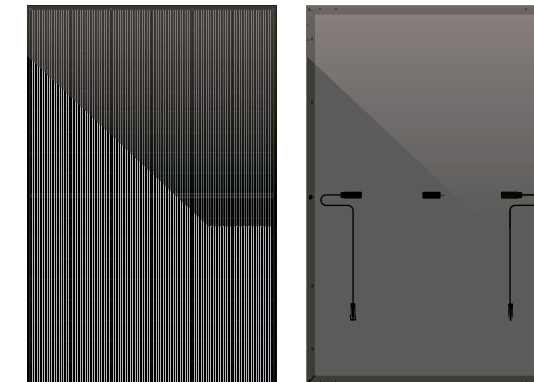


UKS-410-430M10T

182mm 16BB 108Cells All Black
TOPCon Mono Half Cell PV-Module



All Dimensions in mm
The above drawing is a graphical representation of the product
For engineering quality drawings please contact DIRECTION.



Transparent backsheet is available.
Bifacial Solar PV Modules can be customized.

Electrical Characteristics (STC/NOCT)

Module Type	SL-410M10T		SL-415M10T		SL-420M10T		SL-425M10T		SL-430M10T	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Front Side										
Maximum Power- Pmax(W)	410	313.5	415	317.3	420	321.1	425	320	430	328.7
Open Circuit Voltage - Voc(V)	38.20	36.30	38.33	36.40	38.46	36.50	38.59	36.60	38.72	36.80
Short- Circuit Current - Isc(A)	13.93	11.23	14.01	11.30	14.09	11.36	14.17	11.42	14.25	11.49
Voltage at Pmax -Vmp(V)	31.60	29.60	31.79	29.70	31.97	29.90	32.16	30.00	32.34	30.20
Current at Pmax - Imp(A)	12.98	10.60	13.06	10.68	13.14	10.75	13.22	10.82	13.30	10.89
Module Efficiency -ηm(%)	21.00	/	21.30	/	21.50	/	21.80	/	22.00	/
Power Tolerance(W)	(0, +4.99W)									
Maximum System Voltage(V)	1500Vdc (IEC / UL)									
Maximum Series Fuse Rating (A)	25A									

STC : Irradiance 1000W/m², Cell Temperature 25 C, Air Mass 1.5
NOCT : Irradiance 800W/m², Ambient Temperature 20 C, Air Mass 1.5, Wind Speed 1m/s

Mechanical Specifications

External Dimensions	1722x1134x30mm
Weight	20.5kg
Solar Cells	N-Type 16BB 182mm(2x54pcs)
Front Glass	AR Coated 3.2 mm tempered glass
Frame	Anodized aluminum alloy
Junction Box	IP68
Output Cables	4.0mm ² , 1200mm (+), 1200mm (-), length can be customized
Connector	MC4 Compatible
Mechanical Load	Front Side Max. 5400Pa, Rear Side Max. 2400Pa

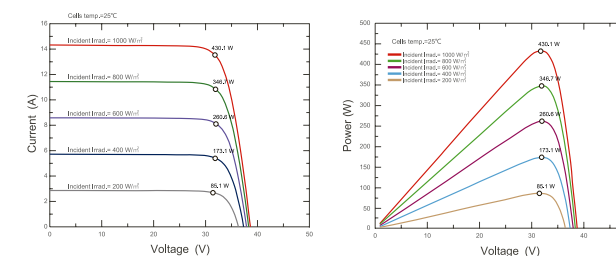
Packing Configuration

	1722x1134x30mm	
Container	20'GP	40'HQ
Pieces per Pallet	36	36
Pallets per Container	6	26
Pieces per Container	216	936

Temperature Characteristics

Pmax Temperature Coefficient	-0.290%/C
Voc Temperature Coefficient	-0.250%/C
Isc Temperature Coefficient	+0.045%/C
Operating Temperature	-40~+85 C
Nominal Operating Cell Temperature(NOCT)	45±2 C

Current-Voltage & Power-Voltage Curves



Specifications are subject to change without further notification

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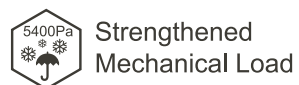
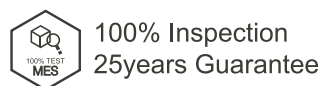
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TOPCon MONOFACIAL



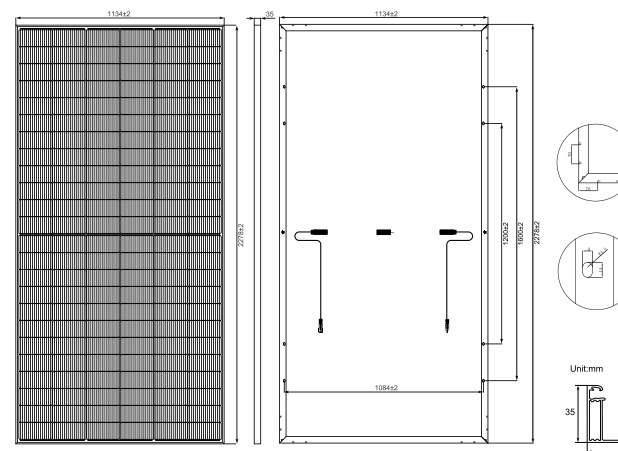
UKS-545-580M10T 545~580 Watt

182mm 16BB 144Cells
TOPCon Mono Half Cell PV-Module Series

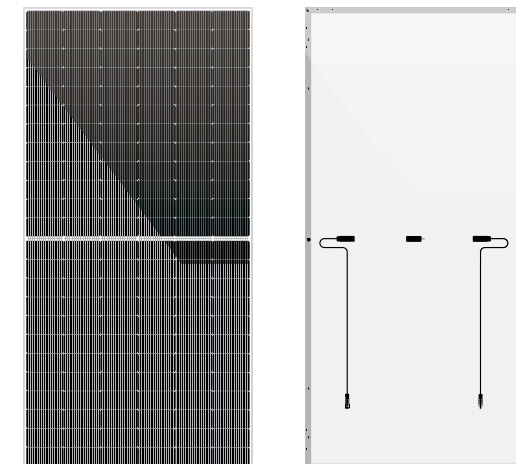


UKS-545~580M10T

182mm 16BB 144Cells TOPCon Mono Half Cell PV-Module



All Dimensions in mm
The above drawing is a graphical representation of the product
For engineering quality drawings please contact DIRECTION.



Transparent backsheet is available.
Bifacial Solar PV Modules can be customized.

Electrical Characteristics (STC/NOCT)

Module Type	SL-545M10T		SL-550M10T		SL-555M10T		SL-560M10T		SL-565M10T		SL-570M10T		SL-575M10T		SL-580M10T	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power- Pmax(W)	545	408	550	412	555	416	560	421	565	425	570	429	575	432	580	436
Open Circuit Voltage - Voc(V)	50.04	47.53	50.18	47.66	50.32	47.79	50.67	48.13	50.87	48.32	51.07	48.51	51.27	48.70	51.47	48.89
Short- Circuit Current - Isc(A)	13.90	11.16	13.98	11.25	14.06	11.32	14.13	11.41	14.19	11.46	14.25	11.50	14.31	11.55	14.37	11.60
Voltage at Pmax -Vmp(V)	41.33	38.91	41.48	39.03	41.64	39.15	41.96	39.39	42.15	39.52	42.30	39.65	42.45	39.78	42.60	39.87
Current at Pmax - Imp(A)	13.19	10.48	13.26	10.56	13.33	10.62	13.35	10.89	13.41	10.75	13.48	10.81	13.55	10.87	13.62	10.94
Module Efficiency -ηm(%)	21.10	/	21.29	/	21.48	/	21.68	/	21.87	/	22.07	/	22.26	/	22.45	/
Power Tolerance(W)	(0, +4.99W)															
Maximum System Voltage(V)	1500Vdc (IEC / UL)															
Maximum Series Fuse Rating (A)	25A															

STC : Irradiance 1000W/m², Cell Temperature 25 °C, Air Mass 1.5 NOCT : Irradiance 800W/m², Ambient Temperature 20 °C, Air Mass 1.5, Wind Speed 1m/s

Mechanical Specifications

External Dimensions	2278x1134x35mm
Weight	28.6kg
Solar Cells	N-Type 16BB 182mm(2x72pcs)
Front Glass	AR Coated 3.2 mm tempered glass
Frame	Anodized aluminum alloy
Junction Box	IP68
Output Cables	4.0mm ² , 1200mm (+), 1200mm (-), length can be customized
Connector	MC4 Compatible
Mechanical Load	Front Side Max. 5400Pa, Rear Side Max. 2400Pa

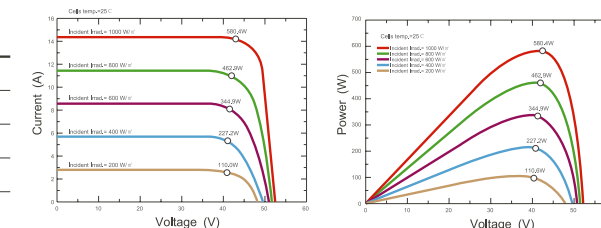
Packing Configuration

	2278x1134x35mm	
Container	20'GP	40'HQ
Pieces per Pallet	31	31
Pallets per Container	4	20
Pieces per Container	124	620

Temperature Characteristics

Pmax Temperature Coefficient	-0.290%/°C
Voc Temperature Coefficient	-0.250%/°C
Isc Temperature Coefficient	+0.045%/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature(NOCT)	45±2 °C

Current-Voltage & Power-Voltage Curves



Specifications are subject to change without further notification

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