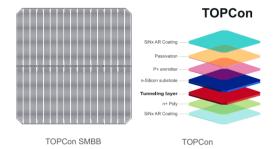
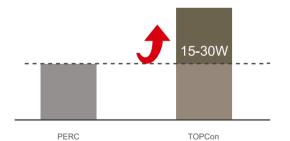


# High Efficiency N-Type TOPCon PV Module Advantages Half-Cell TOPCon PV Series



#### **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



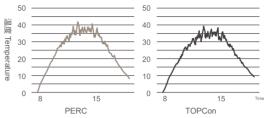
PERC 60% 双面率 60%Bifaciality

TOPCon( ≯ 25%)85% 双面率

### 85%Bifaciality

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

#### Real-Time operating temperature



#### **Lower Temperature Coefficient**

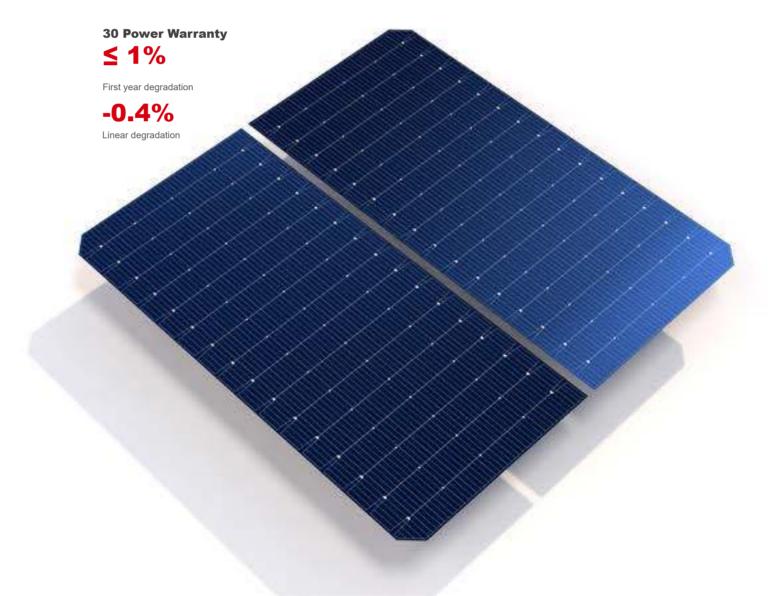
- The temperature coefficient of P-type PV module is -0.34%/°C

  N-type module optimized temperature coefficient to -0.29%/°C
- Power generation is particularly prominent in high temperature environments

# 0 5 10 15 20 25 30 PERC

#### **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





410~430 Watt

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





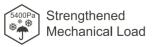






100% Inspection 25years Guarantee







Anti PID







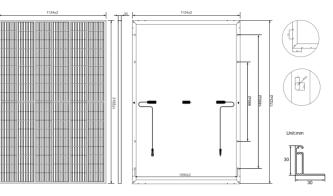




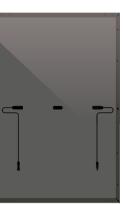




# UKS-410-430M10T







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

### **Electrical Characteristics (STC/NOCT)**

Module Type	SL-41	SL-410M10T SL-415M10T		SL-420M10T		SL-425M10T		SL-430M10T		
Front Side	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
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)					1500V	dc (IEC / UL)				

Maximum Series Fuse Rating (A)

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

NOCT: Irradiance 800W/m<sup>2</sup>, 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	4.0mm², 1200mm (+), 1200mm (-), length can be customized
Connector	MC4 Compatible
Mechanical Load	Front Side Max. 5400Pa, Rear Side Max. 2400Pa

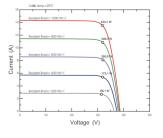
# **Temperature Characteristics**

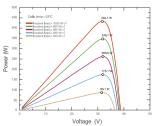
Pmax Temperature Coefficient	-0.290%/°C	
Voc Temperature Coefficient	-0.250%/C	
Isc Temperature Coefficient	+0.045%/°C	
Operating Temperature	-40~+85°C	
Nominal Operating Cell Temperature(NOCT)	45±2°C	

# **Packing Configuration**

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

#### Current-Voltage & Power-Voltage Curves





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