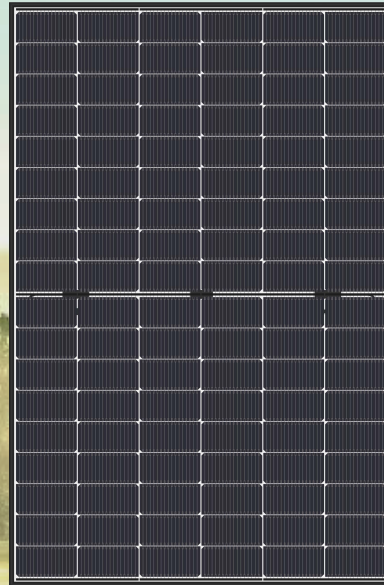




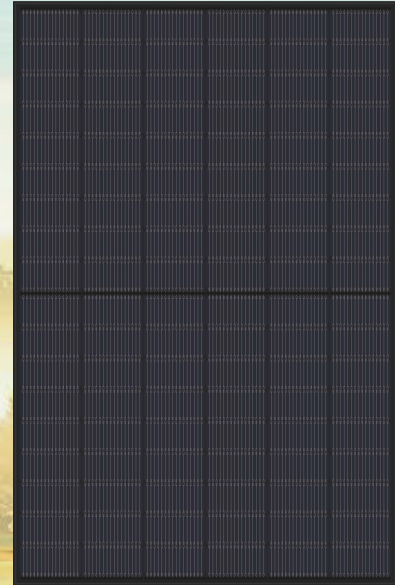
SOLENSO

ICON series

410W-430W M10 N-type Topcon PV module
(Positive power tolerance of 0~+5W)



Front Side



Back Side

CERTIFICATES



KEY FEATURES

- **Higher Power Density & Efficiency**

UP to 430 W power and 22.04 % module efficiency.

- **MBB Half Cut Cell With Topcon Technology**

Half cut and MBB technology brings more BOS saving.

- **Enhanced Mechanical Performance**

Excellent Temperature Coefficient, Up to 5400 pa positive load and 2400 Pa negative load

- **Lower Shading Effect**

Parallel circuit design reduces Module power loss.

- **Better Low-light Performance**

Better temperature coefficient.

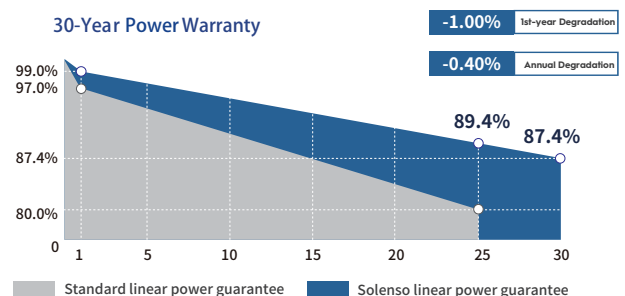
- **Excellent PID resistance**

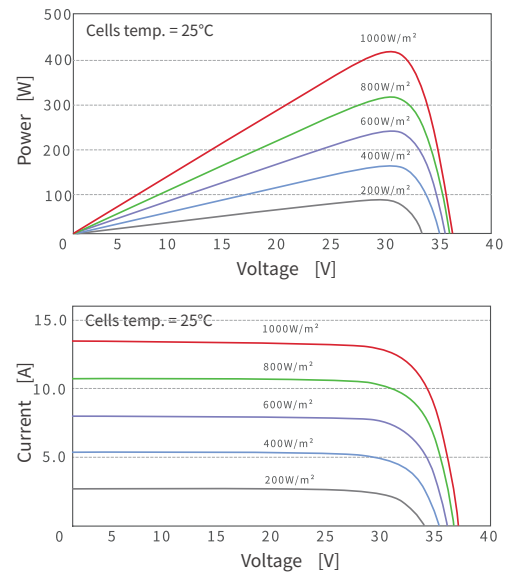
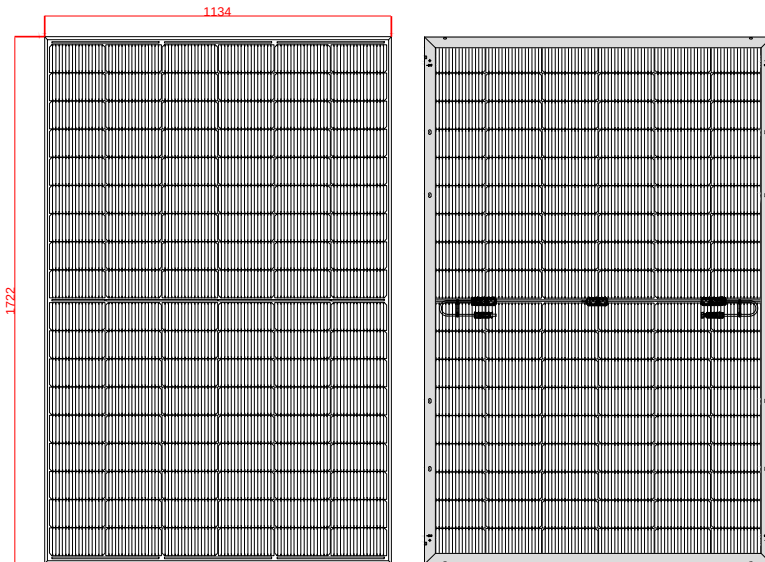
Ensured PID resistance through cell process and module material control

- **Double Sided Power Generation**

Bifaciality is up to 80%, up to 30% more energy yield than conventional modules.

- **Additional Value**





Electrical Parameter

Model		ICON-54M10G-410	ICON-54M10G-415	ICON-54M10G-420	ICON-54M10G-425	ICON-54M10G-430
Test Environment		STC	STC	STC	STC	STC
Maximum Power Pmax (W)		410	415	420	425	430
Open Circuit Voltage Voc (V)		37.80	37.99	38.10	38.21	38.42
Short Circuit Current Isc (A)		14.07	14.16	14.23	14.30	14.36
Maximum Power Voltage Vm (V)		30.20	31.75	32.01	32.15	32.15
Maximum Power Current Im (A)		13.07	13.07	13.12	13.22	13.22
Module Efficiency (%)		21.01%	21.27%	21.52%	21.78%	22.04%
RearSide Power Gain	5%	430.5	430.75	441	446.3	451.5
		22.07%	22.33%	22.60%	22.87%	23.17%
	15%	471.5	477.25	483	488.8	494.5
		24.17%	24.46%	24.76%	25.05%	25.34%
	25%	512.5	518.75	525	531.3	537.5
		26.27%	26.59%	26.91%	27.23%	27.55%

*STC: Irradiance 1000 W/m², module temperature 25°C, AM=1.5, testing tolerance < +/-3%

The Electrical performance parameters are neither just referred to one PV panel, nor are a part of the contract; They are only used as reference.

Materials Parameters

Cell Type	N-type Mono 182mm
Number of Cells	2 x 54 Cells
Dimension	1722 x 1134 x 35 (mm)
Weight	23.5Kg
Glass	2.0 mm x 2 semi-toughened glass (Transparent or Black Mesh Glass)
Cables	4mm ² , 300mm, (Customizable)
Junction Box	IP ≥ 68, 3 Diode
Connector	EVO2 or EVO2 compatible
Mechanical Test Load (Front)	5400Pa
Mechanical Test Load (Back)	2400Pa

Packing

Container	40' HQ
Module / Pallets	31
Module / Container	806

Temperature Parameter

Nominal Operating Cell Temp.	42°C (±2°C)
Temp. Coeff. of Pmax (%/°C)	-0.30
Temp. Coeff. of Voc (%/°C)	-0.25
Temp. Coeff. of Isc (%/°C)	0.045

Maximum Rating Parameter

Tolerance (W)	0~+5w
Maximum System Voltage (V)	DC 1500
Operating Temperature (°C)	-40 to 85
Max.Series Fuse (A)	30

Certification

IEC / EN 61215-1:2016;
IEC / EN 61215-1-1:2016;
IEC 61215-2:2016 / EN 61215-2:2017 + AC:2017 + AC:2018;
IEC 61730-1:2016 / EN IEC 61730-1:2018 + AC:2018;
IEC 61730-2:2016 / EN IEC 61730-2:2018 + AC:2018.

