

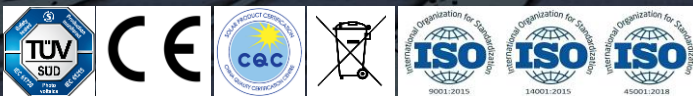
SolarVela MAX

TOPCON Flexible Module 550-560W

Ultralight | Flexible | Anti-hotspot | Crack-free

Powered by TSR-Armor™ Technology

Quality Assurance



Product
Warranty



Performance
Warranty



Fully Insured
by CCIC



Low-weight

Areal Weight: 2.9 kg/m², Less than 30% of Traditional Glass-based Solar Modules



Thin

Thickness: 1.8 mm (excl. junction box), Less than 50% of Traditional Glass-based Solar Modules



Flexible

Minimum Bending Radius: 0.3 m (No Cell Cracks or Power Loss)



Micro-crack Resistance

TSR-Armor™ Technology: Resistant to Hail and Vibration without Cell Cracks and Power Loss.



Hotspot Optimization

6-Bypass Architecture & Micro-crack Resistance: Curbing Hot-spots in Shading & Harsh Conditions



Easy-to-install

Modules Can be Directly Bonded to Installation Surface by Weather-resistant Glue

560W

Max-power

21%

Efficiency

0-+5W

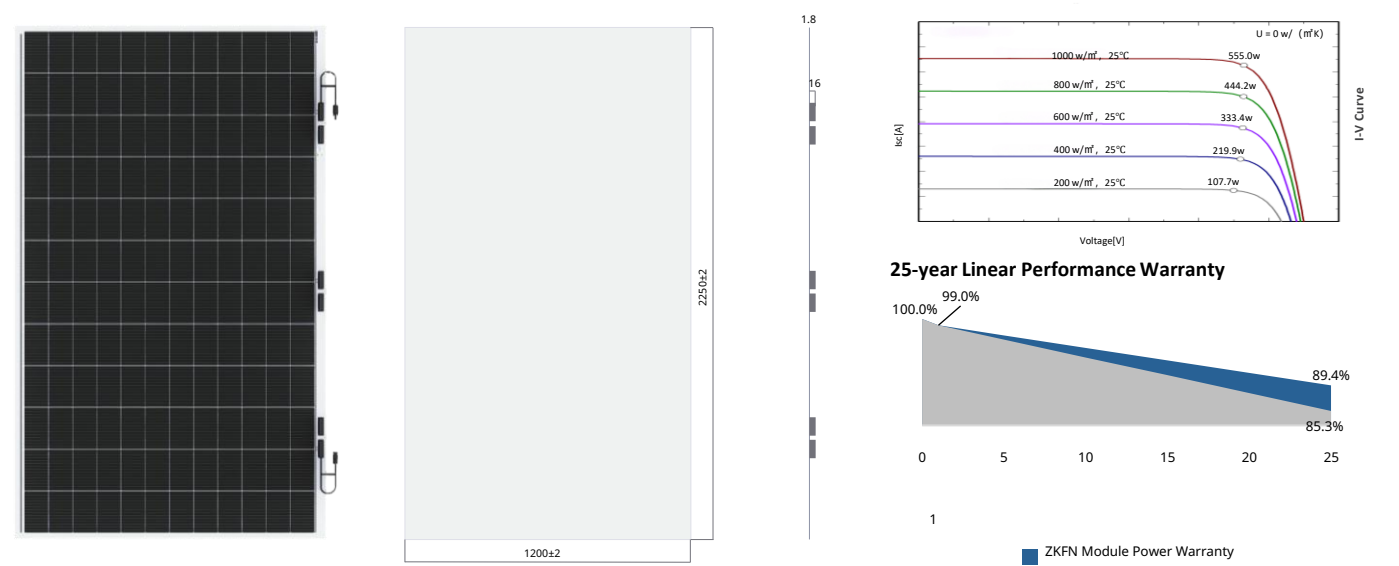
Power-tolerance

≤1%

First-year Degradation

≤0.4%

Annual Degradation from Year 2-25



Electrical performance parameters

(STC:AM1.5 1000W/m² 25°C; test error: ±3%;NMOT:800W/m² 20°C 1m/s) Power Tolerance:0-+5W

Module Type	ZKFN B1 010A-550		ZKFN B1 010A-555		ZKFN B1 010A-560	
Test Conditions	STC	NMOT	STC	NMOT	STC	NMOT
Pmax [W]	550	414.15	555	417.92	560	421.68
Vmp [V]	45.19	42.34	45.25	42.40	45.29	42.44
Imp [A]	12.18	9.79	12.27	9.87	12.37	9.95
Voc [V]	52.96	50.31	53.01	50.36	53.05	50.40
Isc [A]	12.95	10.40	12.92	10.43	12.96	10.46

Mechanical parameters	
Cell Type	Topcon cell 182.2*91.87mm
Dimension	2250*1200*1.8mm (junction box not included)
Weight	7.6kg
Output Line	4mm²,wire length 400mm (customizable)
Connector	Staubli Electrical Connectors AG – MC4 EVO2 Series
Junction-box	6 IP68-rated junction box
Backboard Color	White

Temperature coefficient		
Temperature-coefficient of PMPP	[%/°C]	-0.29
Temperature-coefficient of Voc	[%/°C]	-0.26
Temperature-coefficient of Isc	[%/°C]	+0.045
NOCT	[°C]	45±2

Application parameters	
Max. System Voltage	DC 1500V
Power Tolerance	0-+5W
Operating Temperature Range	-40°C-+85°C
Max. Series Fuse Rating	25A
Mechanical Load	Front 5400Pa,back 2400Pa
Wind Resistance Class	Lv.17
Hailstone Test	25mm hailstone at the speed of 23m/s

Package			
Transportation	Container size	Quantity (pcs)	Quantity (per pallet)
Container	40' HQ	1260	70
Platform Trailer	13m	1400	70
Platform Trailer	17.5m	1960	70

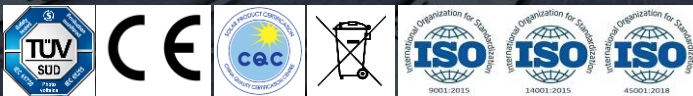
SolarNoah MAX

TOPCON Flexible Module 550-560W

Ultralight | Flexible | Anti-hotspot | Crack-free

Powered by TSR-Armor™ Technology

Quality Assurance



Product
Warranty



Performance
Warranty



Fully Insured
by CCIC



Low-weight

Areal Weight: 3.8kg/m², Less than 30% of Traditional Glass-based Solar Modules



Thin

Thickness: 1.8 mm (excl. junction box), Less than 50% of Traditional Glass-based Solar Modules



Easy-to-install

Special Designed Back Frame And Horn-shaped Quick-clamp, Enable Rail-free And Doubled Installation Efficiency



Micro-crack Resistance

TSR-Armor™ Technology: Resistant to Hail and Vibration Without Cell Cracks and Power Loss.



Hotspot Optimization

6-Bypass Architecture & Micro-crack Resistance: Curbing Hot-spots in Shading & Harsh Conditions



Detachable

Quick-clamp Enables Fast and Non-destructive Relocation of Modules, No Impact on Roof Renovation

560W

Max-power

21%

Efficiency

0-+5W

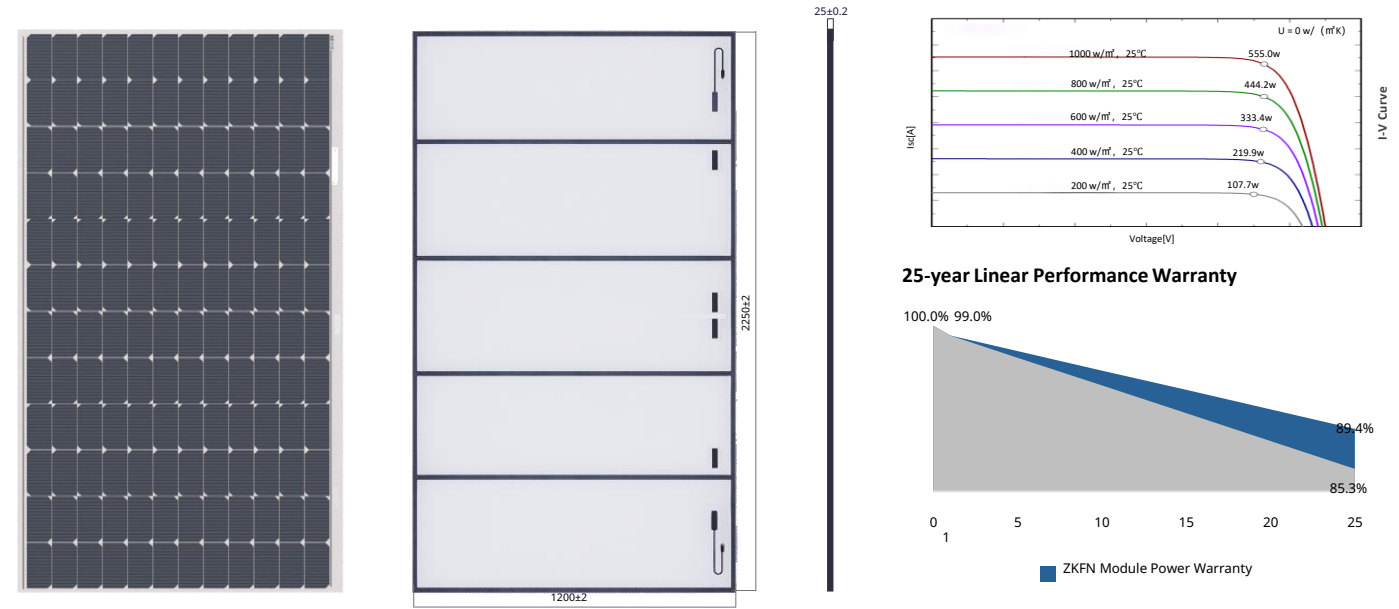
Power-tolerance

≤1%

First-year Degradation

≤0.4%

Annual Degradation from Year 2-25



Electrical performance parameters (STC:AM1.5 1000W/m² 25°C; test error: ±3%;NMOT:800W/m² 20°C 1m/s) Power Tolerance:0-+5W

Module Type	ZKFN B1 012B-550		ZKFN B1 012B-555		ZKFN B1 012B-560	
Test Conditions	STC	NMOT	STC	NMOT	STC	NMOT
Pmax [W]	550	414.15	555	417.92	560	421.68
Vmp [V]	45.19	42.34	45.25	42.40	45.29	42.44
Imp [A]	12.18	9.79	12.27	9.87	12.37	9.95
Voc [V]	52.96	50.31	53.01	50.36	53.05	50.40
Isc [A]	12.95	10.40	12.92	10.43	12.96	10.46

Mechanical parameters	
Cell Type	Topcon cell 182.2*91.87mm
Dimension	2250*1200*25mm(Back Frame Included)
Weight	10.2kg(Back Frame Included)
Back Frame Type	Thickness 20mm,composite material
Output Line	4mm²,wire length 400mm (customizable)
Connector	Staubli Electrical Connectors AG – MC4 EVO2 Series
Junction-box	6 IP68-rated junction box
Backboard Color	White

Temperature coefficient		
Temperature-coefficient of PMPP	[%/°C]	-0.29
Temperature-coefficient of Voc	[%/°C]	-0.26
Temperature-coefficient of Isc	[%/°C]	+0.045
NOCT	[°C]	45±2

Application parameters	
Max. System Voltage	DC 1500V
Power Tolerance	0-+5W
Operating Temperature Range	-40°C-+85°C
Max. Series Fuse Rating	25A
Mechanical Load	Front 5400Pa,back 2400Pa
Wind Resistance Class	Lv.17
Hailstone Test	25mm hailstone at the speed of 23m/s

Package			
Transportation	Container size	Quantity (pcs)	Quantity (per pallet)
Container	40' HQ	792	44
Platform Trailer	13m	880	44
Platform Trailer	17.5m	1232	44

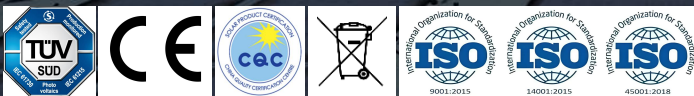
TECHNICAL DATA SHEET

Customized TOPCON Flexible Module

Ultralight | Flexible | Crack-free | Easy-to-install

Powered by TSR-Armor™ Technology

Quality Assurance



Product
Warranty



Performance
Warranty



Fully Insured
by CCIC



Low-weight

Areal Weight: 2.9 kg/m², Less than 30% of Traditional Glass-based Solar Modules



Thin

Thickness: 1.8 mm (excl. junction box), Less than 50% of Traditional Glass-based Solar Modules



Flexible

Minimum Bending Radius: 0.3 m (No Cell Cracks or Power Loss)



Micro-crack Resistance

TSR-Armor™ Technology: Resistant to Hail and Vibration without Cell Cracks and Power Loss.



Easy-to-install

Modules Can be Directly Bonded to Installation Surface by Weather-resistant Glue



Aesthetics

Module's Surface and Texture Can be Customized to Meet Aesthetic Requirements

21%

Efficiency

0-+3W

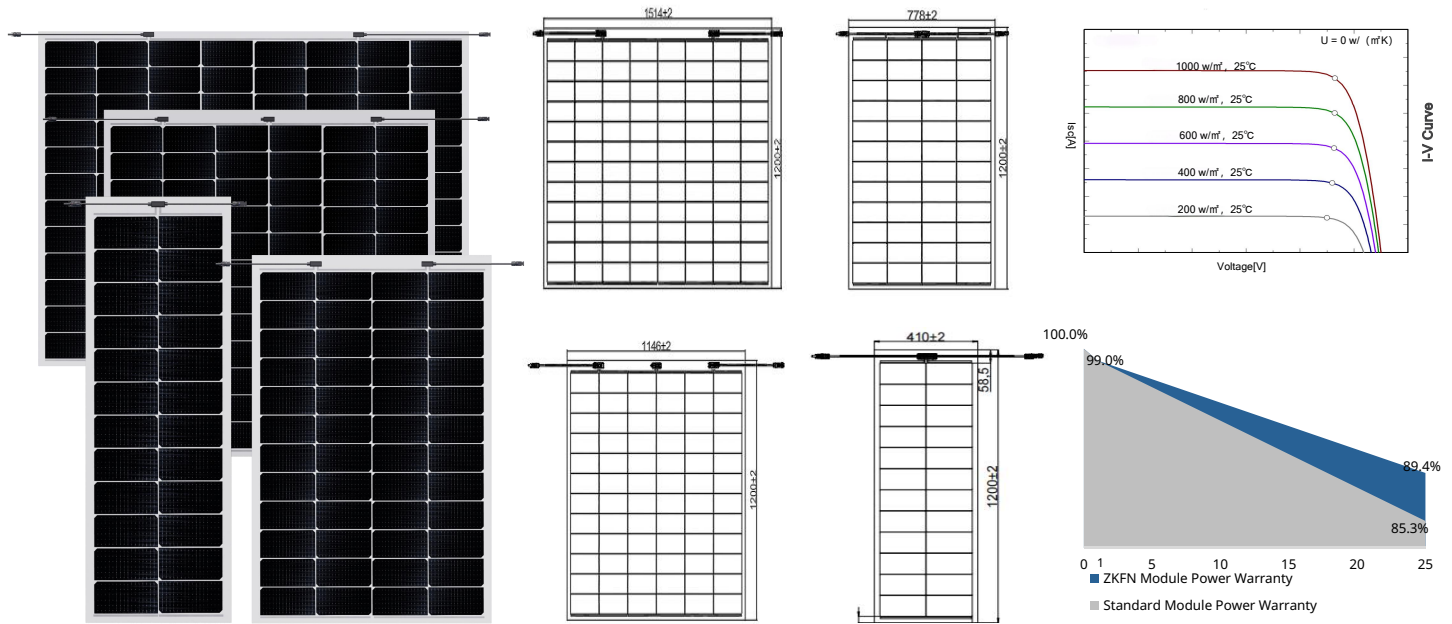
Power-tolerance

≤1%

First-year Degradation

≤0.4%

Annual Degradation from Year 2-25



Electrical performance parameters (STC:AM1.5 1000W/m² 25°C; test error: ±3%;NMOT:800W/m² 20°C 1m/s) Power Tolerance:0-+3W

Module Type	ZKFN C1 010A-375		ZKFN D1 010A-280		ZKFN H1 010A-186		ZKFN I1 010A-91	
Dimension[mm]	1514*1200		1146*1200		1200*778		1200*410	
Test Conditions	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Pmax [W]	375	300	280	224	186	149.2	91	72.8
Vmp [V]	30.22	29.94	45.29	44.53	30.19	29.37	15.06	14.47
Imp [A]	12.41	10.02	6.19	5.12	6.19	5.08	6.09	5.03
Voc [V]	35.39	33.62	53.05	50.41	35.36	34.01	17.65	16.77
Isc [A]	12.99	10.52	6.48	5.25	6.45	5.22	6.44	5.19

Mechanical parameters

Cell Type	Topcon cell 182.2*91.87mm
Thickness	1.8mm (junction box not included)
Weight	2.9kg/m²
Output Line	4mm²,wire length 400mm (customizable)
Connector	MC4 compatible
Junction-box	IP68-rated junction box
Backboard Color	White

Application parameters

Max. System Voltage	DC 1000V
Power Tolerance	0-+3W
Operating Temperature Range	-40°C-+85°C
Max. Series Fuse Rating	25A
Mechanical Load	Front 5400Pa,back 2400Pa
Wind Resistance Class	Lv.17
Hailstone Test	25mm hailstone at the speed of 23m/s

Temperature coefficient

Temperature-coefficient of PMPP	[%/°C]	-0.29	Temperature-coefficient of Isc	[%/°C]	+0.045
Temperature-coefficient of Voc	[%/°C]	-0.26	NOCT	[°C]	45±2

SolarPega

TOPCON Light-weight Module 510-520W

Light-weight | Anti-dust | Walkable | Crack-free

Powered by TSR-Armor™ Technology

Quality Assurance



Light-weight

Weight only 5.9kg/m², about 50% of traditional panels



Walkable

Panels can be stepped on, without cell micro-cracks



Anti-dust

Frameless panel, rain self-cleans



Easy-to-install

Structural adhesive bonding, no rails required

520W

Max-power

23.4%

Efficiency

0-+5W

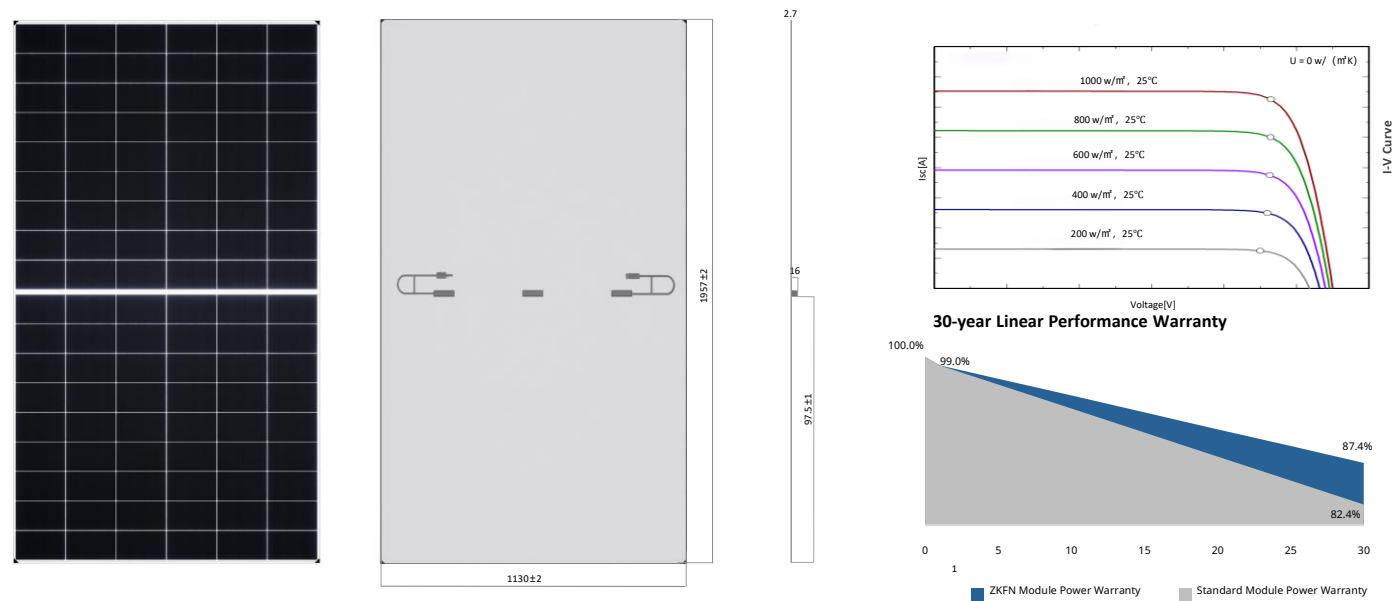
Power-tolerance

≤1%

First-year Degradation

≤0.4%

Annual Degradation from Year 2-30



Electrical performance parameters

(STC:AM1.5 1000W/m² 25°C test error ±3%;NMOT:800W/m² 20°C 1m/s) Power Tolerance:0-+5W

Module Type	ZKFN-G2-220B 510		ZKFN-G2-220B 515		ZKFN-G2-220B 520	
Test Conditions	STC	NMOT	STC	NMOT	STC	NMOT
Pmax [W]	510	392.76	515	396.64	520	400.68
Vmp [V]	33.58	26.86	33.69	26.95	33.79	27.03
Imp [A]	15.19	14.28	15.29	14.37	15.4	14.48
Voc [V]	39.46	31.96	39.61	32.08	39.78	32.22
Isc [A]	15.83	14.94	15.78	14.99	15.84	15.05

Mechanical parameters	
Cell Type	Topcon cell 182.3*105mm
Dimension	1957*1130*2.7mm(junction box not included)
Glass	Single glass,1.6mm heat-strengthened glass
Weight	13.0kg
Output Line	4mm²,wire length 400mm (customizable)
Connector	Staubli Electrical Connectors AG – MC4 EVO2 Series
Junction-box	3 IP68-rated junction box

Temperature coefficient		
Temperature-coefficient of PMPP	[%/°C]	-0.33
Temperature-coefficient of Voc	[%/°C]	-0.27
Temperature-coefficient of Isc	[%/°C]	+0.045
NOCT	[°C]	45±2

Application parameters	
Max. System Voltage	DC 1500V
Power Tolerance	0-+5W
Operating Temperature Range	-40°C-+85°C
Max. Series Fuse Rating	25A
Mechanical Load	Front 3600Pa,back 2400Pa
Wind Resistance Class	Lv.17
Hailstone Test	25mm hailstone at the speed of 23m/s

Package			
Transportation	Container size	Quantity (pcs)	Quantity (per pallet)
Container	40' HQ	1080	60
Platform Trailer	13m	1200	60
Platform Trailer	17.5m	1680	60

SolarPegaF

TOPCON Light-weight Module 510-520W

Light-weight | Anti-dust | Walkable | Crack-free

Powered by TSR-Armor™ Technology

Quality Assurance



Light-weight

Weight only 7.3kg/m², about 40% of traditional panels



Walkable

Panels can be stepped on, without cell micro-cracks



Anti-dust

Panel surface has the same height of frame, avoiding dust accumulation



Easy-to-install

Quick-clamp mounting, no rails required

520W

Max-power

23.4%

Efficiency

0-+5W

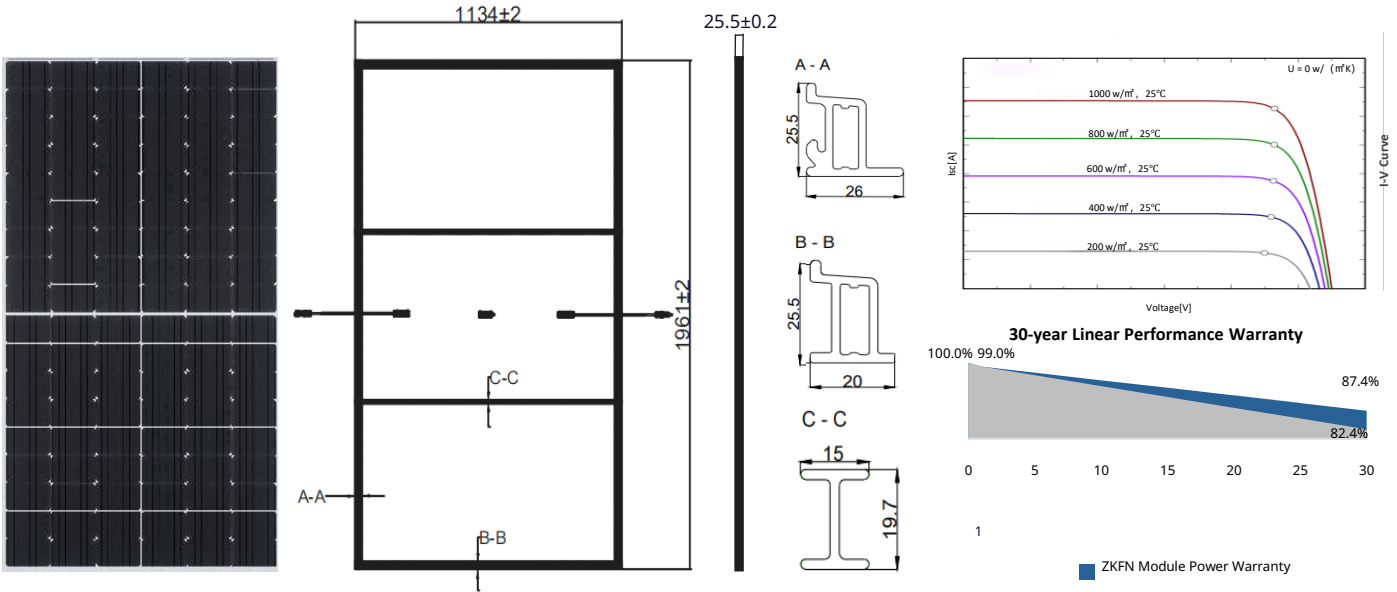
Power-tolerance

≤1%

First-year Degradation

≤0.4%

Annual Degradation from Year 2-30



Electrical performance parameters

(STC:AM1.5 1000W/m² 25°C test error ±3%;NMOT:800W/m² 20°C 1m/s) Power Tolerance:0-+5W

Module Type	ZKFN-G2-222B 510		ZKFN-G2-222B 515		ZKFN-G2-222B 520	
Test Conditions	STC	NMOT	STC	NMOT	STC	NMOT
Pmax [W]	510	392.76	515	396.64	520	400.68
Vmp [V]	33.58	26.86	33.69	26.95	33.79	27.03
Imp [A]	15.19	14.28	15.29	14.37	15.4	14.48
Voc [V]	39.46	31.96	39.61	32.08	39.78	32.22
Isc [A]	15.83	14.94	15.78	14.99	15.84	15.05

Mechanical parameters	
Cell Type	Topcon cell 182.3*105mm
Dimension	1961*1134*25.5mm
Glass	Single glass,1.6 mm heat-strengthened glass
Frame	High-strength glass-fiber resin composite
Weight	16.2kg
Output Line	4mm²,wire length 400mm (customizable)
Connector	Staubli Electrical Connectors AG – MC4 EVO2 Series
Junction-box	3 IP68-rated junction box

Temperature coefficient		
Temperature-coefficient of PMPP	[%/°C]	-0.33
Temperature-coefficient of Voc	[%/°C]	-0.27
Temperature-coefficient of Isc	[%/°C]	+0.045
NOCT	[°C]	45±2

Application parameters	
Max. System Voltage	DC 1500V
Power Tolerance	0-+5W
Operating Temperature Range	-40°C-+85°C
Max. Series Fuse Rating	25A
Mechanical Load	Front 3600Pa,back 2400Pa
Wind Resistance Class	Lv.17
Hailstone Test	25mm hailstone at the speed of 23m/s

Package			
Transportation	Container size	Quantity (pcs)	Quantity (per pallet)
Container	40' HQ	720	40
Platform Trailer	13m	800	40
Platform Trailer	17.5m	1120	40

SolarPegaL

TOPCON Light-weight Module 500-510W

Light-weight | Anti-dust | Walkable | Crack-free

Powered by TSR-Armor™ Technology

Quality Assurance



Light-weight

Weight only 4.5kg/m², about 50% of traditional panels



Walkable

Panels can be stepped on, without cell micro-cracks



Anti-dust

Frameless panel, rain self-cleans



Easy-to-install

Structural adhesive bonding, no rails required

510W

Max-power

22.9%

Efficiency

0-+5W

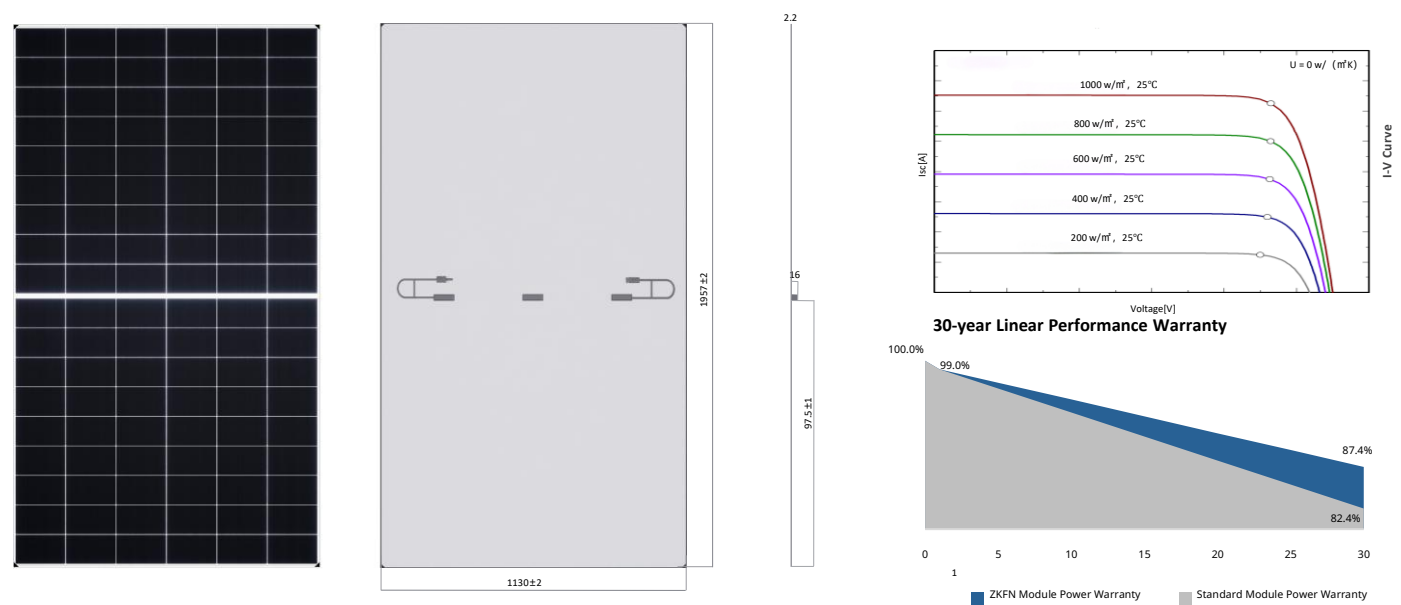
Power-tolerance

≤1%

First-year Degradation

≤0.4%

Annual Degradation from Year 2-30



Electrical performance parameters

(STC:AM1.5 1000W/m² 25°C test error ±3%;NMOT:800W/m² 20°C 1m/s) Power Tolerance:0-+5W

Module Type	ZKFN-G2-120B 500		ZKFN-G2-120B 505		ZKFN-G2-120B 510	
Test Conditions	STC	NMOT	STC	NMOT	STC	NMOT
Pmax [W]	500	385	505	388.8	510	392.7
Vmp [V]	33.76	27.00	33.85	27.08	33.91	27.13
Imp [A]	14.83	13.94	14.94	14.04	15.06	14.16
Voc [V]	39.72	32.17	39.87	32.29	40.03	32.42
Isc [A]	15.36	14.59	15.40	14.63	15.45	14.68

Mechanical parameters	
Cell Type	Topcon cell 182.3*105mm
Dimension	1957*1130*2.2mm
Glass	Single glass,1.1mm reinforced glass
Weight	10.0kg
Output Line	4mm²,wire length 400mm (customizable)
Connector	Staubli Electrical Connectors AG – MC4 EVO2 Series
Junction-box	3 IP68-rated junction box

Temperature coefficient		
Temperature-coefficient of PMPP	[%/°C]	-0.33
Temperature-coefficient of Voc	[%/°C]	-0.27
Temperature-coefficient of Isc	[%/°C]	+0.045
NOCT	[°C]	45±2

Application parameters	
Max. System Voltage	DC 1500V
Power Tolerance	0-+5W
Operating Temperature Range	-40°C-+85°C
Max. Series Fuse Rating	25A
Mechanical Load	Front 2400Pa,back 2400Pa
Wind Resistance Class	Lv.17
Hailstone Test	25mm hailstone at the speed of 23m/s

Package			
Transportation	Container size	Quantity (pcs)	Quantity (per pallet)
Container	40' HQ	1080	60
Platform Trailer	13m	1200	60
Platform Trailer	17.5m	1680	60

SolarPegaFL

TOPCON Light-weight Module 500-510W

Light-weight | Anti-dust | Walkable | Crack-free

Powered by TSR-Armor™ Technology

Quality Assurance



Light-weight

Weight only 5.9kg/m², about 50% of traditional panels



Walkable

Panels can be stepped on, without cell micro-cracks



Anti-dust

Panel surface has the same height of frame, avoiding dust accumulation



Easy-to-install

Quick-clamp mounting, no rails required

510W

Max-power

22.9%

Efficiency

0-+5W

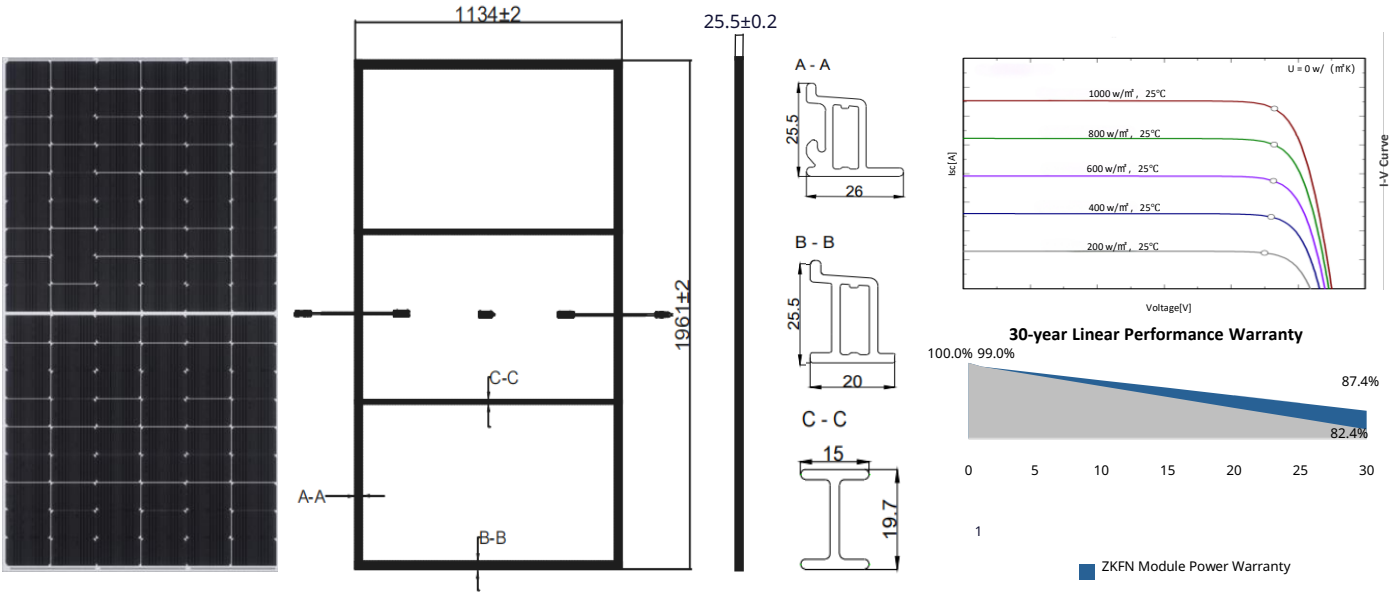
Power-tolerance

≤1%

First-year Degradation

≤0.4%

Annual Degradation from Year 2-30



Electrical performance parameters

(STC:AM1.5 1000W/m² 25°C test error ±3%;NMOT:800W/m² 20°C 1m/s) Power Tolerance:0-+5W

Module Type	ZKFN-G2-122B 500		ZKFN-G2-122B 505		ZKFN-G2-122B 510	
Test Conditions	STC	NMOT	STC	NMOT	STC	NMOT
Pmax [W]	500	385	505	388.8	510	392.7
Vmp [V]	33.76	27.00	33.85	27.08	33.91	27.13
Imp [A]	14.83	13.94	14.94	14.04	15.06	14.16
Voc [V]	39.72	32.17	39.87	32.29	40.03	32.42
Isc [A]	15.36	14.59	15.40	14.63	15.45	14.68

Mechanical parameters	
Cell Type	Topcon cell 182.3*105mm
Dimension	1961*1134*25.5mm
Glass	Single glass,1.1mm reinforced glass
Frame	High-strength glass-fiber resin composite
Weight	13.0kg
Output Line	4mm²,wire length 400mm (customizable)
Connector	Staubli Electrical Connectors AG – MC4 EVO2 Series
Junction-box	3 IP68-rated junction box

Temperature coefficient		
Temperature-coefficient of PMPP	[%/°C]	-0.33
Temperature-coefficient of Voc	[%/°C]	-0.27
Temperature-coefficient of Isc	[%/°C]	+0.045
NOCT	[°C]	45±2

Application parameters	
Max. System Voltage	DC 1500V
Power Tolerance	0-+5W
Operating Temperature Range	-40°C-+85°C
Max. Series Fuse Rating	25A
Mechanical Load	Front 2400Pa,back 2400Pa
Wind Resistance Class	Lv.17
Hailstone Test	25mm hailstone at the speed of 23m/s

Package			
Transportation	Container size	Quantity (pcs)	Quantity (per pallet)
Container	40' HQ	720	40
Platform Trailer	13m	800	40
Platform Trailer	17.5m	1120	40

SolarPega-S

TOPCON Light-weight Module 510-520W

Light-weight | Anti-fire | Walkable | Crack-free

Class A Fire Rated

Powered by TSR-Armor™ Technology

Quality Assurance



Light-weight

Weight only 6.8 kg/m², about 50% of traditional panels



Walkable

TSR-Armor™ Technology: Resistant to step-on and vibration without cell cracks and power losses.



Class A Fire Rated

Fire-resistive backsheet & TSR-Armor™ enable industry's first Class A fire rated light-weight module



Easy-to-install

Direct bonding with structural adhesive, improving efficiency by 50%.

520W

Max-power

23.4%

Efficiency

0-+5W

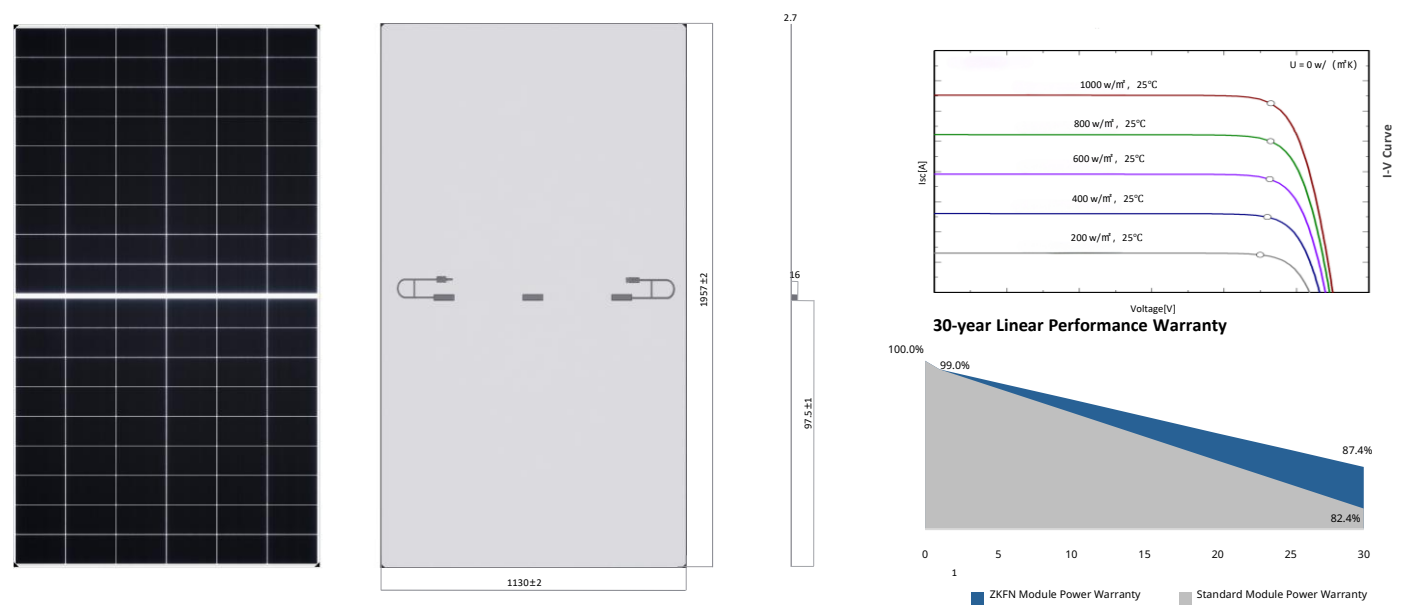
Power-tolerance

≤1%

First-year Degradation

≤0.4%

Annual Degradation from Year 2-30



Electrical performance parameters

(STC:AM1.5 1000W/m² 25°C test error ±3%;NMOT:800W/m² 20°C 1m/s) Power Tolerance:0-+5W

Module Type	ZKFN-G2-220B 510		ZKFN-G2-220B 515		ZKFN-G2-220B 520	
Test Conditions	STC	NMOT	STC	NMOT	STC	NMOT
Pmax [W]	510	392.76	515	396.64	520	400.68
Vmp [V]	33.58	26.86	33.69	26.95	33.79	27.03
Imp [A]	15.19	14.28	15.29	14.37	15.4	14.48
Voc [V]	39.46	31.96	39.61	32.08	39.78	32.22
Isc [A]	15.83	14.94	15.78	14.99	15.84	15.05

Mechanical parameters	
Cell Type	Topcon cell 182.3*105mm
Dimension	1957*1130*2.7mm(junction box not included)
Glass	Single glass,1.6mm heat-strengthened glass
Weight	15.2kg
Output Line	4mm²,wire length 400mm (customizable)
Connector	Staubli Electrical Connectors AG – MC4 EVO2 Series
Junction-box	3 IP68-rated junction box

Temperature coefficient		
Temperature-coefficient of PMPP	[%/°C]	-0.33
Temperature-coefficient of Voc	[%/°C]	-0.27
Temperature-coefficient of Isc	[%/°C]	+0.045
NOCT	[°C]	45±2

Application parameters	
Max. System Voltage	DC 1500V
Power Tolerance	0-+5W
Operating Temperature Range	-40°C-+85°C
Max. Series Fuse Rating	25A
Mechanical Load	Front 3600Pa, back 2400Pa
Wind Resistance Class	Lv.17
Hailstone Test	25mm hailstone at the speed of 23m/s

Package			
Transportation	Container size	Quantity (pcs)	Quantity (per pallet)
Container	40' HQ	1080	60
Platform Trailer	13m	1200	60
Platform Trailer	17.5m	1680	60

SolarPegaF-S

TOPCON Light-weight Module 510-520W

Light-weight | Anti-fire | Walkable | Crack-free

Class A Fire Rated

Powered by TSR-Armor™ Technology

Quality Assurance



Light-weight

Weight only 8.1kg/m², about 50% of traditional panels



Walkable

TSR-Armor™ Technology: Resistant to step-on and vibration without cell cracks and power losses.



Class A Fire Rated

Fire-resistive backsheet & TSR-Armor™ enable industry's first Class A fire rated light-weight module



Easy-to-install

Direct bonding with structural adhesive, improving efficiency by 50%.

520W

Max-power

23.4%

Efficiency

0-+5W

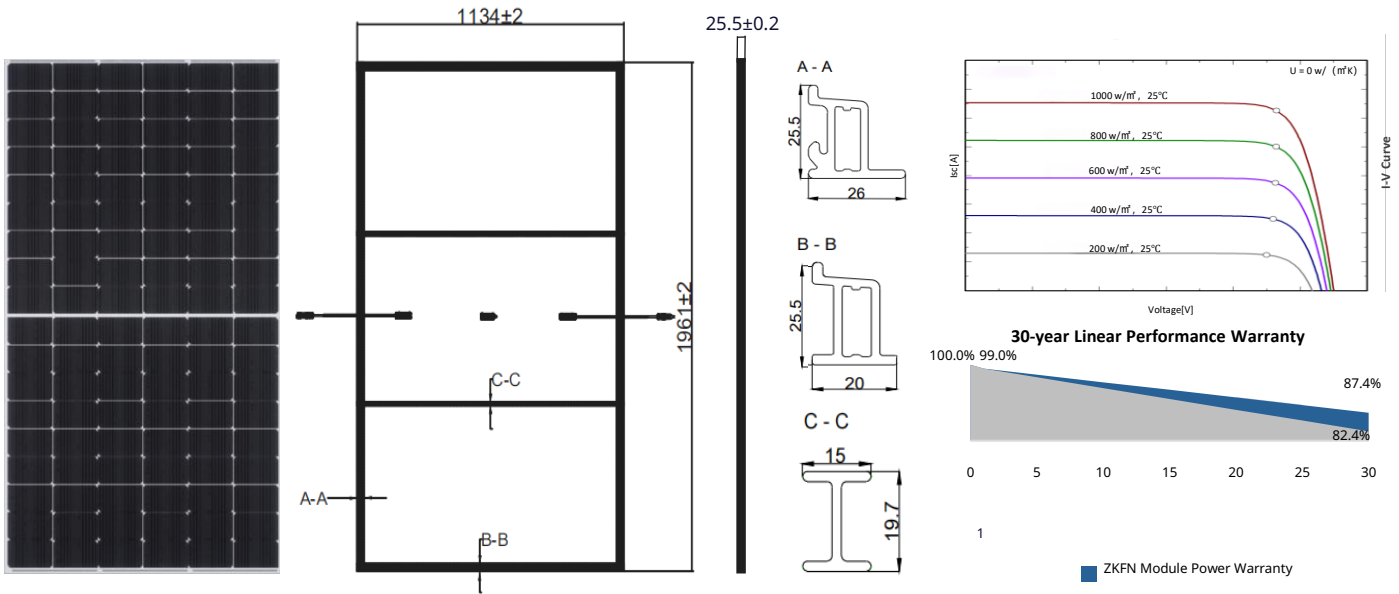
Power-tolerance

≤1%

First-year Degradation

≤0.4%

Annual Degradation from Year 2-30



Electrical performance parameters

(STC:AM1.5 1000W/m² 25°C test error ±3%;NMOT:800W/m² 20°C 1m/s) Power Tolerance:0-+5W

Module Type	ZKFN-G2-222B 510		ZKFN-G2-222B 515		ZKFN-G2-222B 520	
Test Conditions	STC	NMOT	STC	NMOT	STC	NMOT
Pmax [W]	510	392.76	515	396.64	520	400.68
Vmp [V]	33.58	26.86	33.69	26.95	33.79	27.03
Imp [A]	15.19	14.28	15.29	14.37	15.4	14.48
Voc [V]	39.46	31.96	39.61	32.08	39.78	32.22
Isc [A]	15.83	14.94	15.78	14.99	15.84	15.05

Mechanical parameters	
Cell Type	Topcon cell 182.3*105mm
Dimension	1961*1134*25.5mm
Glass	Single glass,1.6mm heat-strengthened glass
Frame	High-strength glass-fiber resin composite
Weight	17.9kg
Output Line	4mm²,wire length 400mm (customizable)
Connector	Staubli Electrical Connectors AG – MC4 EVO2 Series
Junction-box	3 IP68-rated junction box

Temperature coefficient		
Temperature-coefficient of PMPP	[%/°C]	-0.33
Temperature-coefficient of Voc	[%/°C]	-0.27
Temperature-coefficient of Isc	[%/°C]	+0.045
NOCT	[°C]	45±2

Application parameters	
Max. System Voltage	DC 1500V
Power Tolerance	0-+5W
Operating Temperature Range	-40°C-+85°C
Max. Series Fuse Rating	25A
Mechanical Load	Front 3600Pa,back 2400Pa
Wind Resistance Class	Lv.17
Hailstone Test	25mm hailstone at the speed of 23m/s

Package			
Transportation	Container size	Quantity (pcs)	Quantity (per pallet)
Container	40' HQ	720	40
Platform Trailer	13m	800	40
Platform Trailer	17.5m	1120	40

SolarPegaL-S

TOPCON Light-weight Module 500-510W

Light-weight | Anti-fire | Walkable | Crack-free

Class A Fire Rated

Powered by TSR-Armor™ Technology

Quality Assurance



Light-weight

Weight only 5.3 kg/m², about 50% of traditional panels



Walkable

TSR-Armor™ Technology: Resistant to step-on and vibration without cell cracks and power losses.



Class A Fire Rated

Fire-resistive backsheet & TSR-Armor™ enable industry's first Class A fire rated light-weight module



Easy-to-install

Direct bonding with structural adhesive, improving efficiency by 50%.

510W

Max-power

22.9%

Efficiency

0-+5W

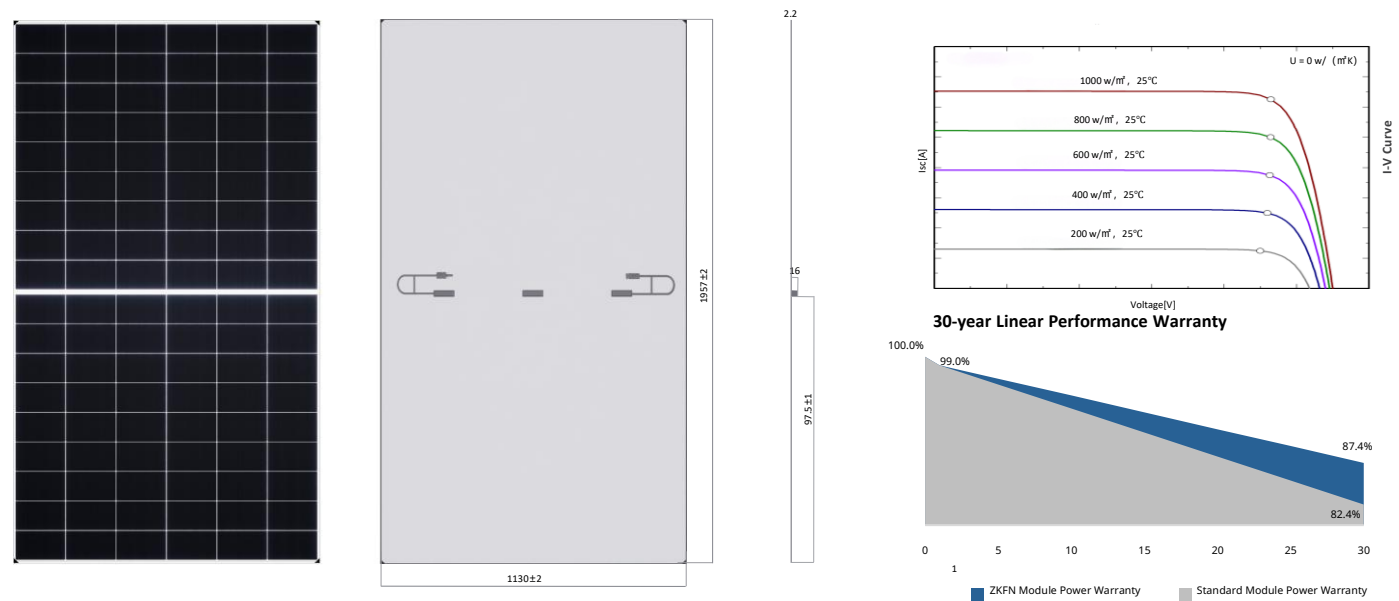
Power-tolerance

≤1%

First-year Degradation

≤0.4%

Annual Degradation from Year 2-30



Electrical performance parameters

(STC:AM1.5 1000W/m² 25°C test error ±3%;NMOT:800W/m² 20°C 1m/s) Power Tolerance:0-+5W

Module Type	ZKFN-G2-120B 500		ZKFN-G2-120B 505		ZKFN-G2-120B 510	
Test Conditions	STC	NMOT	STC	NMOT	STC	NMOT
Pmax [W]	500	385	505	388.8	510	392.7
Vmp [V]	33.76	27.00	33.85	27.08	33.91	27.13
Imp [A]	14.83	13.94	14.94	14.04	15.06	14.16
Voc [V]	39.72	32.17	39.87	32.29	40.03	32.42
Isc [A]	15.36	14.59	15.40	14.63	15.45	14.68

Mechanical parameters	
Cell Type	Topcon cell 182.3*105mm
Dimension	1957*1130*2.2mm
Glass	Single glass,1.1mm reinforced glass
Weight	11.7kg
Output Line	4mm²,wire length 400mm (customizable)
Connector	Staubli Electrical Connectors AG – MC4 EVO2 Series
Junction-box	3 IP68-rated junction box

Temperature coefficient		
Temperature-coefficient of PMPP	[%/°C]	-0.33
Temperature-coefficient of Voc	[%/°C]	-0.27
Temperature-coefficient of Isc	[%/°C]	+0.045
NOCT	[°C]	45±2

Application parameters	
Max. System Voltage	DC 1500V
Power Tolerance	0-+5W
Operating Temperature Range	-40°C-+85°C
Max. Series Fuse Rating	25A
Mechanical Load	Front 2400Pa,back 2400Pa
Wind Resistance Class	Lv.17
Hailstone Test	25mm hailstone at the speed of 23m/s

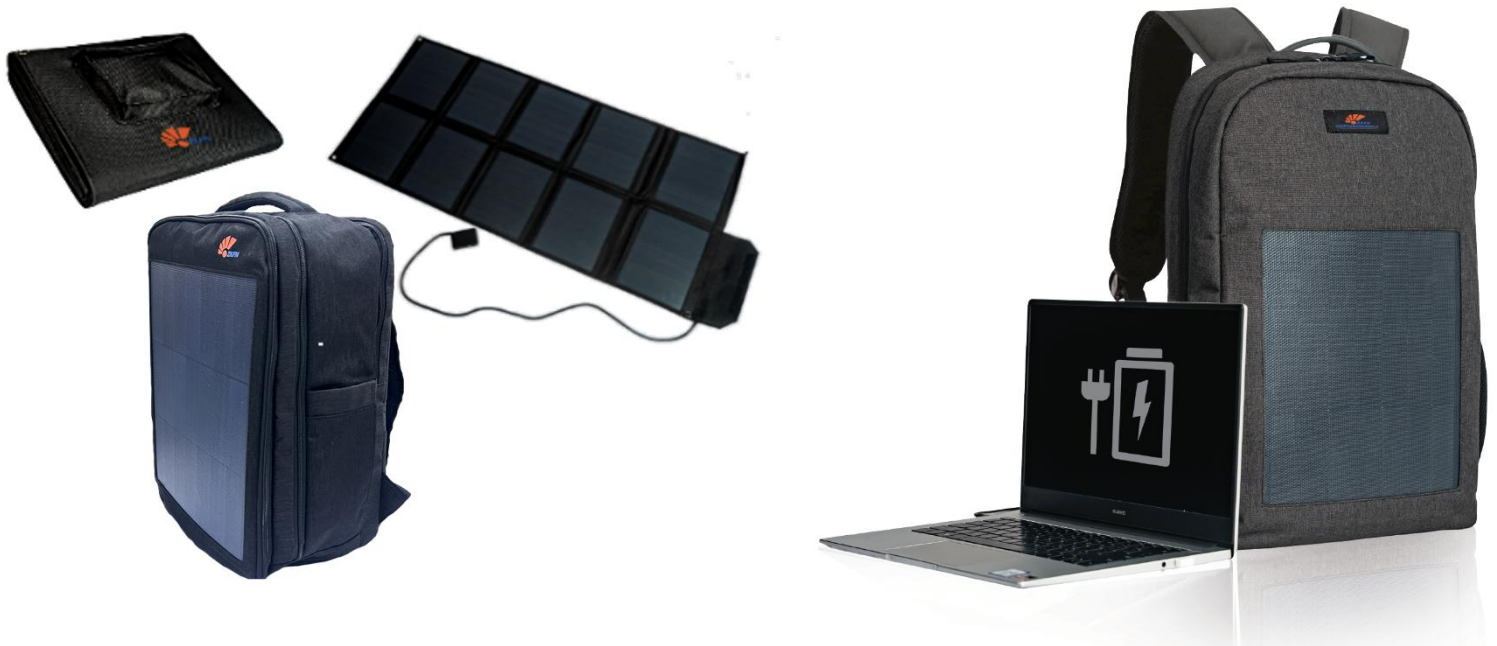
Package			
Transportation	Container size	Quantity (pcs)	Quantity (per pallet)
Container	40' HQ	1080	60
Platform Trailer	13m	1200	60
Platform Trailer	17.5m	1680	60

PORTABLE SOLAR

Ultralight | Portable | High strength | Aesthetics

Powered by TSR-Armor™ Technology





Product model	ZK-F4P45	ZK-F4P100	ZK-F4P130
PMPP	45W	100W	130W
Voc	21.76V	24.48V	29.90V
Isc	2.61A	5.14A	5.34A
VMPP	18.34V	20.60V	25.95V
IMPP	2.46A	4.85A	45.01A
Folded size	270*315*30mm	490*360*30mm	500*400*20mm
Unfold size	315*1150mm	490*1550mm	500*1650mm
Product weight	1.05kg	2.1kg	2.3kg
Colour	Black (Customizable)	Black (Customizable)	Black (Customizable)



light weight

More than 50% weight reduction compared to traditional solar folding bags



Multiport output

Supports USB-A, Type-C and other interfaces



High strength

Self-developed fiber reinforced package structure, flexible, non-splinter



Compatible wide

Support QC2.0/3.0, FCP, AFC, DCP and other fast charging protocols



Customization

According to customer needs to customize different sizes, different electrical performance



Portable storage

The folding bag can be folded for storage, and the backpack can be detachable for convenient travel

SOLARDECK PRO

BALCONY SOLAR SYSTEM

Ultralight | Crack-free | Easy-to-install | Aesthetics

Powered by TSR-Armor™ Technology



Low-weight

Areal Weight: 2.9kg/m²

Flexible Mounting Options



Thin

Module Thickness: 1.8 mm

Frame Thickness: 6 mm



High-strength

No Micro-Cracks Under Hail Impact

High Mechanical Load



Easy-to-install

Flexible Installation

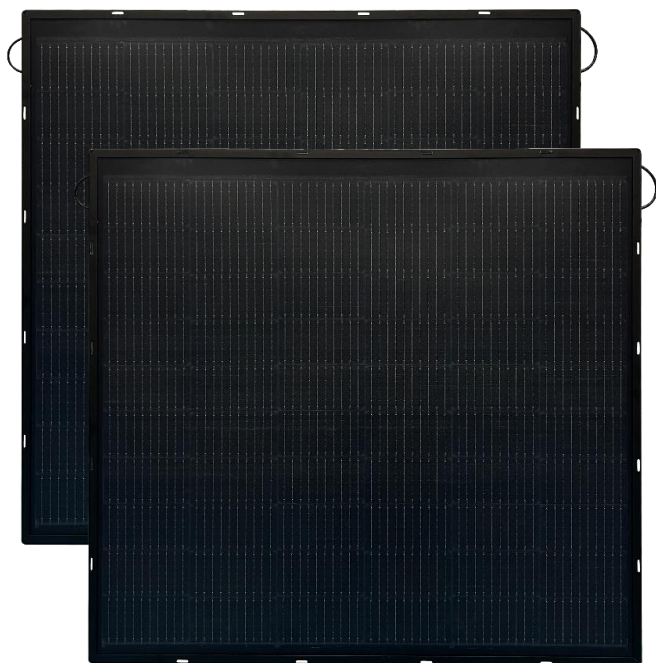
Plug-and-play with Microinverters.



Aesthetics

Standard Balcony Setup
Garden & Terrace Setup
Portable Power Setup

Solardeck Pro



Technical Data Sheet

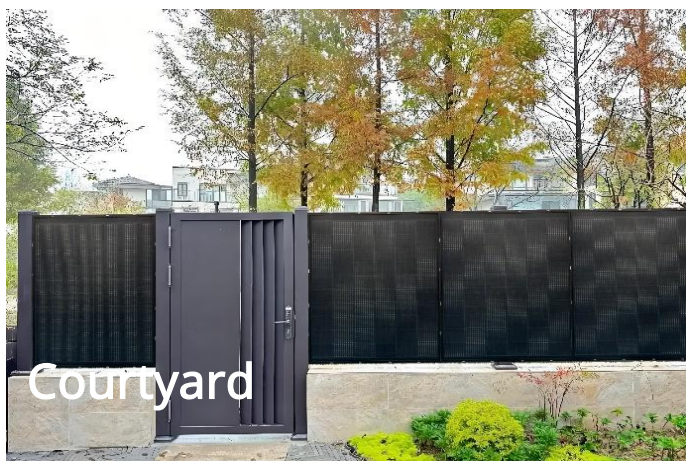
Module Type:	ZKFN-YT233W
Pmax	233W
Vmp	37.74V
Imp	6.19A
Voc	44.21V
Isc	6.48A
Dimension	1161*1033*6mm (junction box not included)
Weight	4kg/m ²
Output Line	4mm ² , wire length 400mm (customizable)
Connector	MC4 compatible
Junction-box	IP68-rated junction box
Mechanical Load	Front 2400Pa, back 2400Pa
Protection Rating	Class II
Temperature-coefficient of PMPP	-0.29%/°C
Temperature-coefficient of Voc	-0.26%/°C
Temperature-coefficient of Isc	+0.045%/°C



Balcony



Apartment



Courtyard



Fence