ZKFN

SolarPega

TOPCON Light-weight Module 510-520W

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

Powered by **TSR-Armor™** Technology

Quality Assurance

15 year Product Warranty

30 year Performance Warranty

Fully Insured by CCIC

Light-weight

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

Walkable

Panels can be stepped on, without cell micro-cracks

Anti-dust

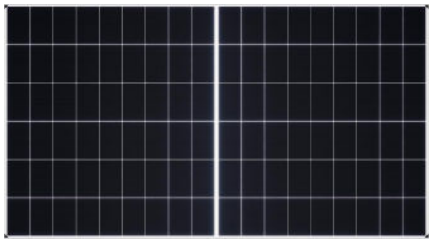
Frameless panel, rain self-cleans

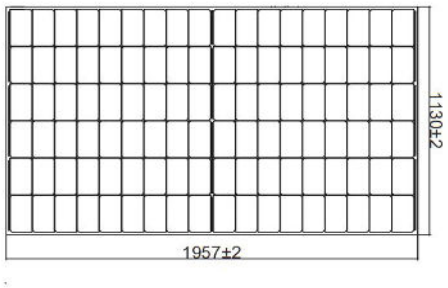
Easy-to-install

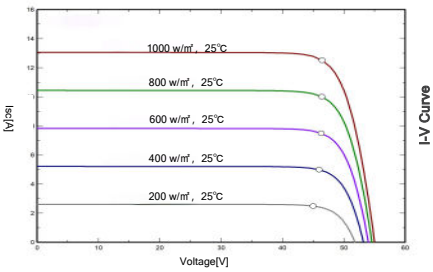
Structural adhesive bonding, no rails required

※ Soft-soled electric-insulated non-slip shoes must be worn; body weight not exceeding 80 kg.

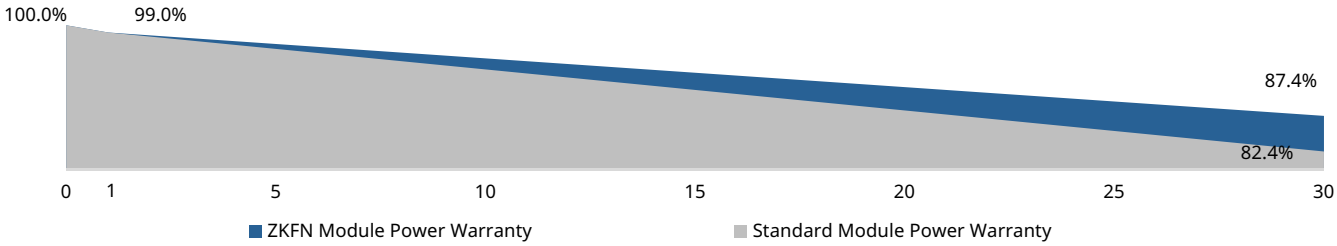
520W	23.4%	0-+5W	≤1%	≤0.4%
Max-power	Efficiency	Power-tolerance	First-year Degradation	Annual Degradation from Year 2-30







30-year Linear Performance Warranty



Electrical performance parameters (STC:AM1.5 1000W/m² 25℃ test error ±3%;NMOT:800W/m² 20℃ 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,1.6 mm heat-strengthened glass
Weight	13.0kg
Output Line	4 mm²,wire length 400 mm (customizable)
Connector	Staubli Electrical Connectors AG - MC4 EVO2 Series
Junction-box	3 IP68-rated junction box

Application parameters

Max. System Voltage	DC 1500V
Power Tolerance	0-+5W
Operating Temperature Range	-40℃-+85℃
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

Temperature coefficient

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

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

Shandong ZKFN Solar Technology Co., Ltd.

Tel.: +86 400 6768 100 **Web.:** www.zkfnsolar.com

Add.: Factory 1 of XinShenglin,LvHaiHui Intelligent Manufacturing Industrial Park, Jining Economic Development Zone,Jining,Shandong,China

*NOTE: ZKFN Solar reserves right to update the specification without notice. Please always obtain the most recent version of the datasheet.

202604_V3.1.1_EN