



SolarPega-S

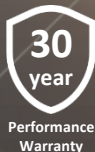
TOPCON Light-weight Module 510-520W

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%.

※ Stepping-on modules should comply with the requirements specified in the ZKFN SolarPega & SolarPegaF Series Installation Manual

520W

Max-power

23.4%

Efficiency

0-+5W

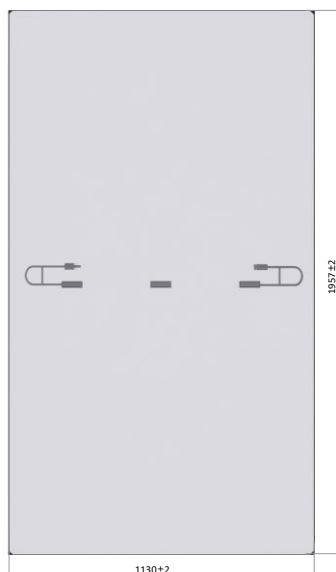
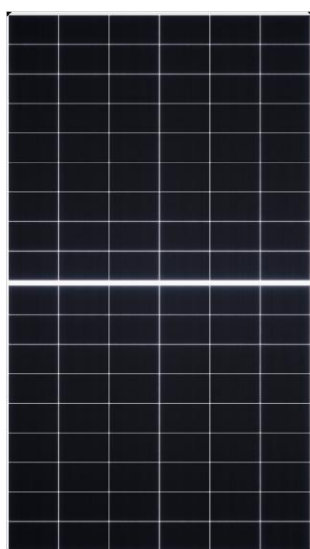
Power-tolerance

≤1%

First-year Degradation

≤0.4%

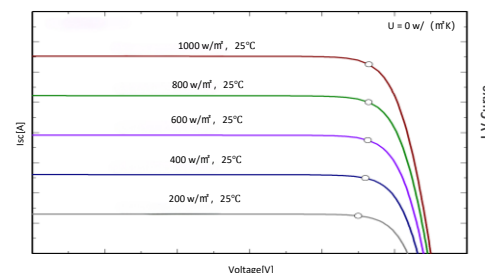
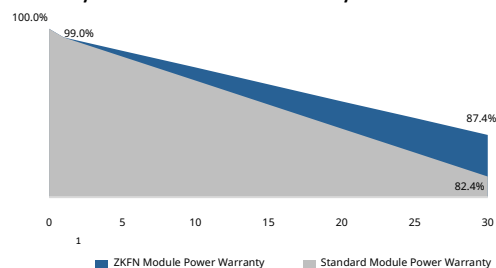
Annual Degradation from Year 2-30



2.7

16

97.5±1

**30-year Linear Performance Warranty**

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	
	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	4mm ² ,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



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

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