

SolarPegaL-S

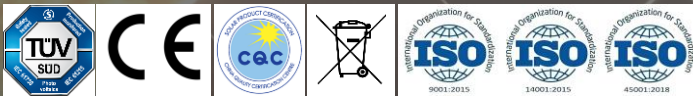
TOPCON Light-weight Module 500-510W

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

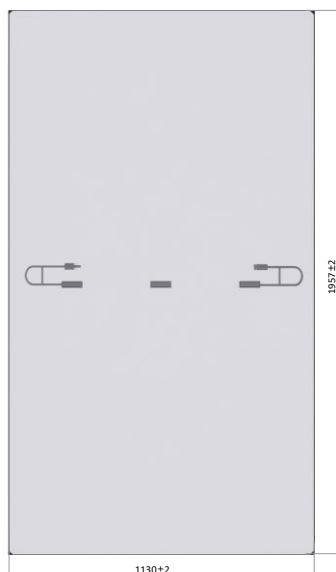
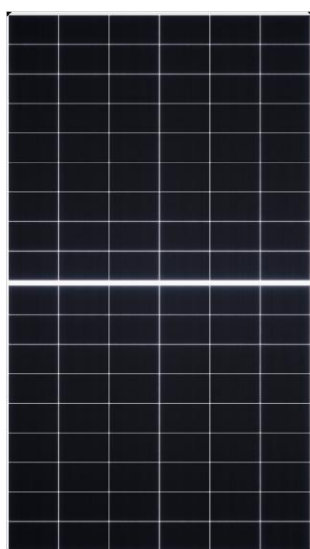
Power-tolerance

≤1%

First-year Degradation

≤0.4%

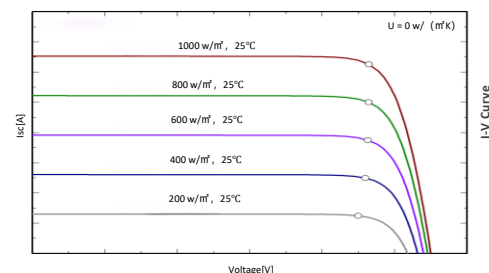
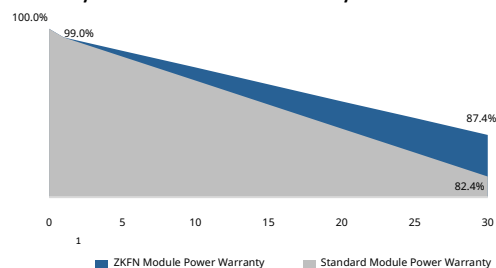
Annual Degradation from Year 2-30



2.2

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-G2-120B 500		ZKFN-G2-120B 505		ZKFN-G2-120B 510	
	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	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 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



Shandong ZKFN Solar Technology Co., Ltd.

Tel.: +86 400 6768 100 Web.: www.zkfn.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.

202605_V6.1.1_EN