



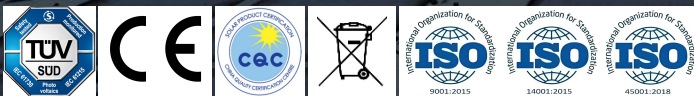
TECHNICAL DATA SHEET

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

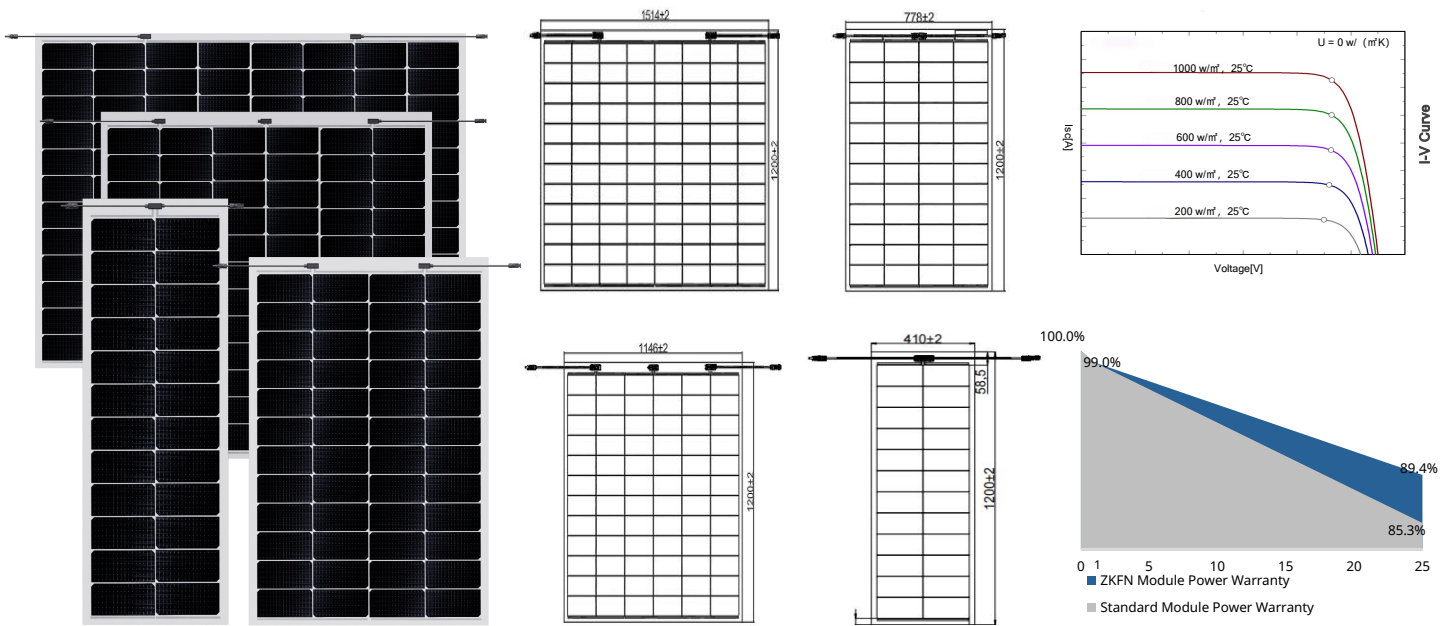
Power-tolerance

≤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



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.

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