

Super-strength

Mono PERC Flexible Module

Module type: TKSUN B1 100A Peak-power: 505-510W

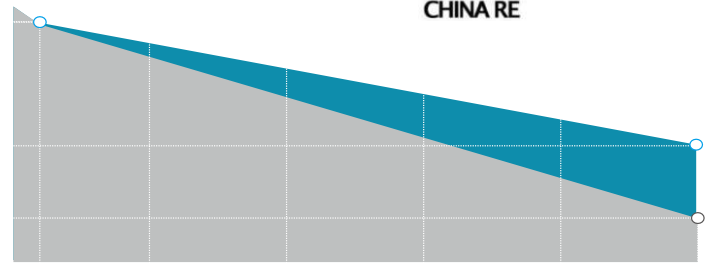
510W	0~+5W
Max-Power	Power-tolerance

Reinsurance Coverage for 25 Years

12year
Quality
Warranty

25year
Performance
Warranty

Insured by CHINA RE



Standard Module Power Warranty TKSUN Module Power Warranty

※ 1st year degradation less than 2.5%, 25 years power output 85.5% guaranteed.

Quality Assurance

IEC61215, IEC61730
ISO9001:2015



Low-weight

Areal weight: 3.0 kg/m², Less than 30% of traditional glass-based solar modules



High-strength

World's only flexible C-Si solar panels which can pass 35 mm hail test



Thin

Thickness: 1.8 mm (junction box not included), Only 50% of traditional glass-based solar modules



Easy-to-install

No need for PV support bracket, modules can be directly bonded to installation surface by weather-resistant glue



Flexible

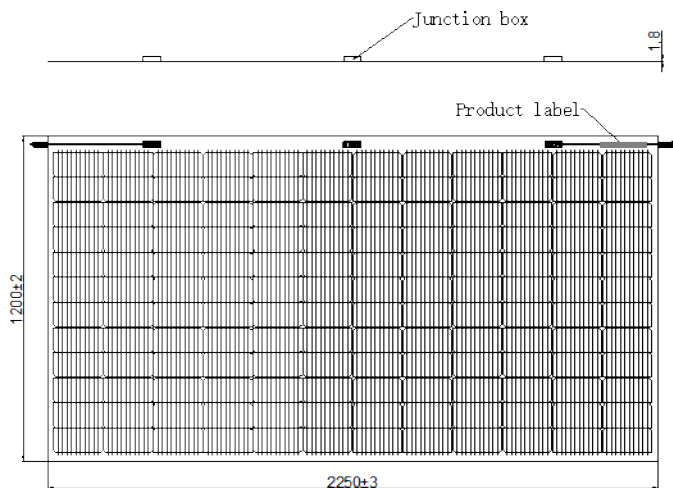
Smallest bending radius of 0.3 m, No cell cracks and no power losses



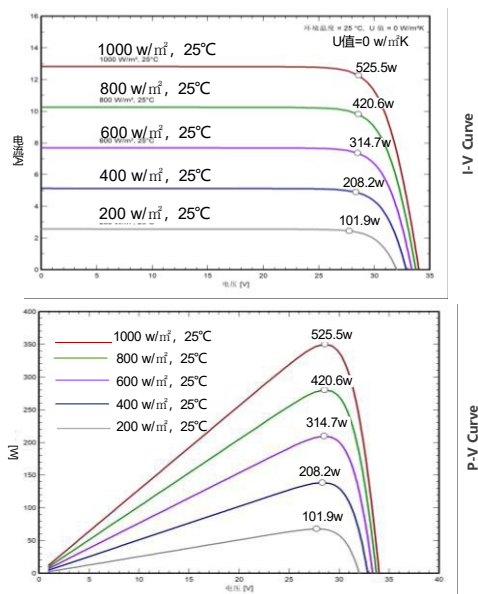
Aesthetics

Module's surface and texture can be customized to meet aesthetic requirements

Size (mm)



Curve characteristic diagram (520Wp)



Electrical performance parameters (STC*)

Module Type		TKSN B1 100A-510	
Max-Power	PMPP	[W]	510
Power Tolerance	0 ~ +3%	[W]	0 ~ 5W
Max-Power Voltage	VMPP	[V]	42.29
Max-Power Current	IMPP	[A]	12.06
Open-Circuit Voltage	Voc	[V]	49.76
Short-Circuit Current	Isc	[A]	12.74
Max. series fuse rating		[A]	25
Max. system voltage	IEC/UL	[V]	1500V DC(IEC)

STC*: Irradiance=1000 W/m², Module temperature=25°C, AM=1.5

Mechanical parameters

Cell Type	Mono PERC 182 mm*182 mm
Size	2250*1200*1.8 mm
Thickness	1.8mm (junction box not included)
Weight	3.0 kg/m ²
Connect or	MC4 Compatible
Junction - box	Triad Junction box IP68
Back board color	Black/White

Electrical performance parameters (NMOT*)

Module Type		TKSN B1 100A-510	
Max-Power	PMPP	[W]	395
Max-Power Voltage	VMPP	[V]	39.37
Max-Power Current	IMPP	[A]	10.37
Open-Circuit Voltage	Voc	[V]	46.1
Short-Circuit Current	Isc	[A]	10.72

NMOT*: Irradiance=800 W/m², Ambient temperature=20°C, Wind speed=1 m/s

Application parameters

Max. system voltage	DC 1500V
Power Tolerance	0 ~ +5 W
Operating temperature range	-40 °C ~ +85°C
Max. series fuse rating	25 A
Mechanical Load	2400Pa (Snow & Wind Load)

Temperature coefficient

Temperature-coefficient of PMPP	[%/°C]	-0.37
Temperature-coefficient of Voc	[%/°C]	-0.28
Temperature-coefficient of Isc	[%/°C]	0.05
NOCT	°C	45±2°C

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