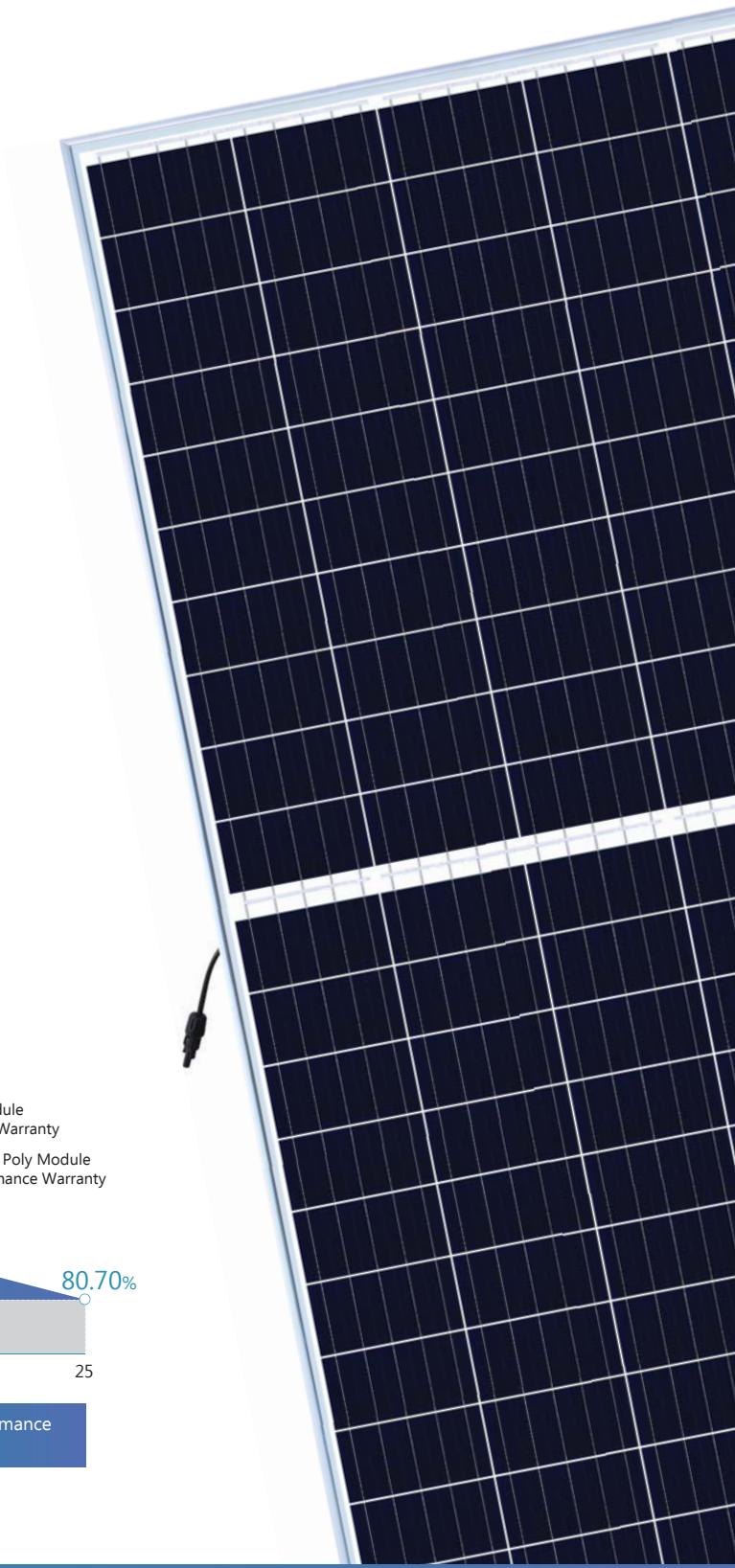
MONO

POLY

DuDrive Series
TSHP-120

Trunsun High Efficiency Polycrystalline Half-cut Cell Solar Module

275-290W



Higher Module Efficiency
Brings 5-10W power gain due to half-cut production system

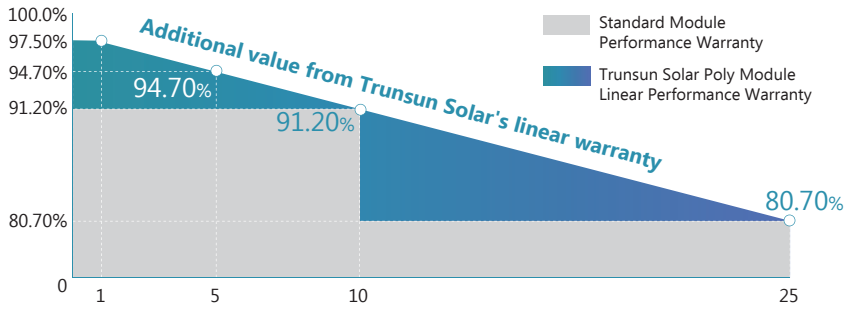
More Energy Yield
Lower NMOT and better temperature coefficient by lower cell series resistance, helps boost energy yield

Lower Operating Temperature, More Reliable
Lower operating temperature and hot spot temperature during the sunny day, making the module prevail during the sunny days

Better Shading Tolerance
Thanks to Paralleling circuit design, more power generated under shading condition and during morning & evening time

Better Micro Crack Resistance
Minimize the impact by micro crack by limiting cell damage and potentially extending area by half-cut module architecture

LINEAR PERFORMANCE WARRANTY



12years Product Material & Workmanship

25years Linear Performance Warranty

TRUNSUN SOLAR

Never stop exceeding

About Trunsun Solar

Trunsun Solar, established in 2008, is dedicated to providing solar products with high quality, excellent performance and strong after-sales support. The company not only has strong financial support but also never stops innovating. Trunsun Solar will keep delivering the diversified solar products for all kinds of renewable energy generation systems around the world.

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Trunsun High Efficiency Polycrystalline
Half-cut Cell Solar Module

ELECTRICAL DATA @ STC*

		TSHP275-120	TSHP280-120	TSHP285-120	TSHP290-120
Peak Power (Pmax)	(W)	275	280	285	290
Maximum Power Voltage (Vmp)	(V)	31.87	32.15	32.43	32.70
Maximum Power Current (Imp)	(A)	8.63	8.71	8.79	8.87
Open-circuit Voltage (Voc)	(V)	38.14	38.42	38.69	38.98
Short-circuit Current (Isc)	(A)	9.20	9.27	9.35	9.42
Module Efficiency	(%)	16.52	16.82	17.12	17.42
Operating Temperature		-40°C~+85°C			
Maximum System Voltage		1000V			
Maximum Series Fuse Rating		15A			
Application Class		Class A			
Power Telorance		0~+3%			

*STC (Standard Test Condition): Irradiance 1000W/ ㎡ , Module Temperature 25℃, AM 1.5

ELECTRICAL DATA @ NMOT*

Peak Power (Pmax)	(W)	204	207	211	215
MPP Voltage (Vmp)	(V)	29.42	29.68	29.93	30.18
MPP Current (Imp)	(A)	6.93	6.99	7.05	7.12
Open Circuit Voltage (Voc)	(V)	35.83	36.09	36.35	36.62
Short Circuit Current (Isc)	(A)	7.45	7.51	7.57	7.63

*Under Nominal Module Operating Temperature (NMOT), Irradiance of 800W/ ㎡ , Spectrum AM 1.5, Ambient Temperature 20℃, Wind Speed 1m/s

TEMPERATURE CHARACTERISTICS

Temperature coefficient of Pmax	-0.39%/°C
Temperature coefficient of Voc	-0.33%/°C
Temperature coefficient of Isc	0.05%/°C
NMOT	42±3°C

MECHNICAL DATA

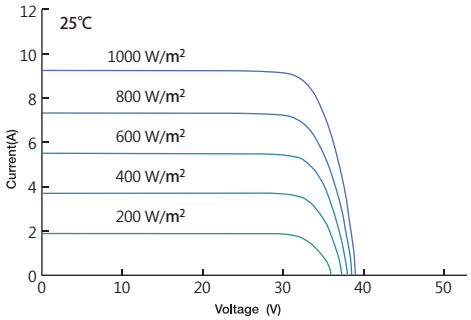
Cell Type	Poly-Crystalline, 156.75×78.38mm
Cell Arrangement	120pcs (2×(6×10))
Dimension (L×W×H)	1680×991×35mm
Weight	19kg
Front Cover	3.2mm Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP67, 3 Bypass Diodes
Cable Type	4mm²
Length of Cable	1160mm
Connector	PV Connector

PACKING MANNER

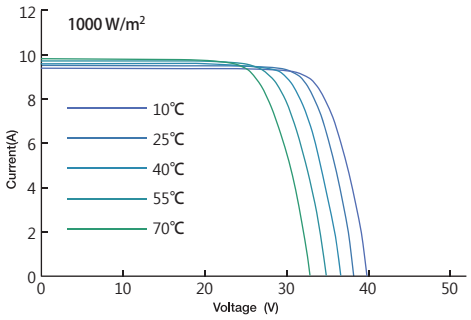
Packing Type	40HQ
Piece/Pallet	30
Pallet/Container	26
Piece/Container	780

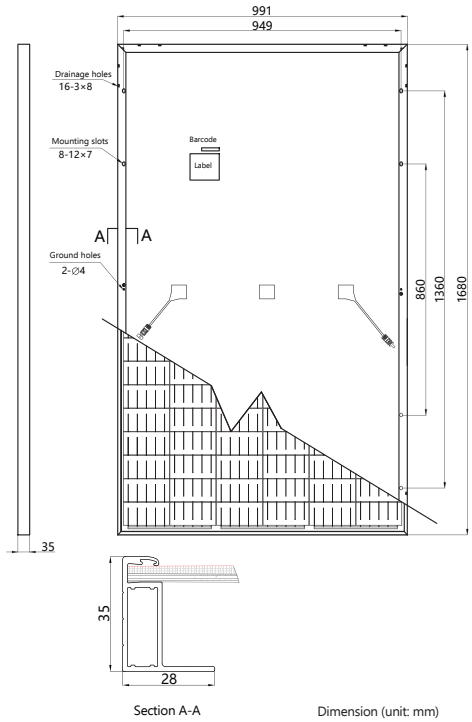
*The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to ongoing innovation, R&D enhancement, Zhejiang Trunsun Solar Co., Ltd. Reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the produccts described herein.

Current-Voltage Curve under different irradiance



Current-Voltage Curve under different working temperatures





*Power measurement tolerance: ±3%

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