






POLY MONO

# DuDrive Series TSHP-144

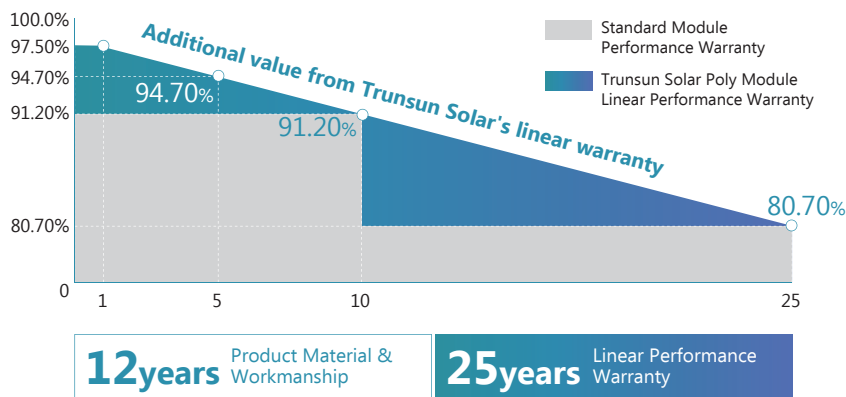


Trunsun High Efficiency Polycrystalline Half-cut Cell Solar Module  
330-350W

- 
**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

### 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.

# DuDrive Series TSHP-144

Trunsun High Efficiency Polycrystalline Half-cut Cell Solar Module

ELECTRICAL DATA @ STC*		TSHP330-144	TSHP335-144	TSHP340-144	TSHP345-144	TSHP350-144
Peak Power (Pmax)	(W)	330	335	340	345	350
Maximum Power Voltage (Vmp)	(V)	38.11	38.38	38.60	38.86	39.11
Maximum Power Current (Imp)	(A)	8.66	8.73	8.81	8.88	8.95
Open-circuit Voltage (Voc)	(V)	45.96	46.24	46.51	46.79	46.79
Short-circuit Current (Isc)	(A)	9.20	9.46	9.57	9.68	9.74
Module Efficiency	(%)	16.65	16.90	17.15	17.41	17.66
Operating Temperature		-40°C~+85°C				
Maximum System Voltage		1000V				
Maximum Series Fuse Rating		20A				
Application Class		Class A				
Power Tolerance		0~+3%				

\*STC (Standard Test Condition): Irradiance 1000W/ m<sup>2</sup>, Module Temperature 25°C, AM 1.5

ELECTRICAL DATA @ NMOT*		TSHP330-144	TSHP335-144	TSHP340-144	TSHP345-144	TSHP350-144
Peak Power (Pmax)	(W)	244	248	252	256	259
MPP Voltage (Vmp)	(V)	35.18	35.43	35.63	35.87	36.10
MPP Current (Imp)	(A)	6.95	7.01	7.07	7.13	7.18
Open Circuit Voltage (Voc)	(V)	43.18	43.44	43.69	43.96	44.26
Short Circuit Current (Isc)	(A)	7.45	7.66	7.75	7.84	7.86

\*Under Nominal Module Operating Temperature (NMOT), Irradiance of 800W/ m<sup>2</sup>, Spectrum AM 1.5, Ambient Temperature 20°C, 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

## MECHANICAL DATA

Cell Type	Poly-Crystalline, 156.75×78.38mm
Cell Arrangement	144pcs (2×(6×12))
Dimension (L×W×H)	2000×991×35mm
Weight	22kg
Front Cover	3.2mm Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP67, 3 Bypass Diodes
Cable Type	4mm <sup>2</sup>
Length of Cable	1250mm
Connector	Jiaming:PV-JM601

## PACKING MANNER

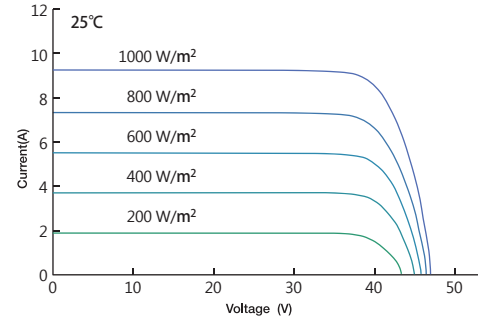
Packing Type	40HQ
Piece/Pallet	30
Pallet/Container	22
Piece/Container	660

\*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 products described herein.

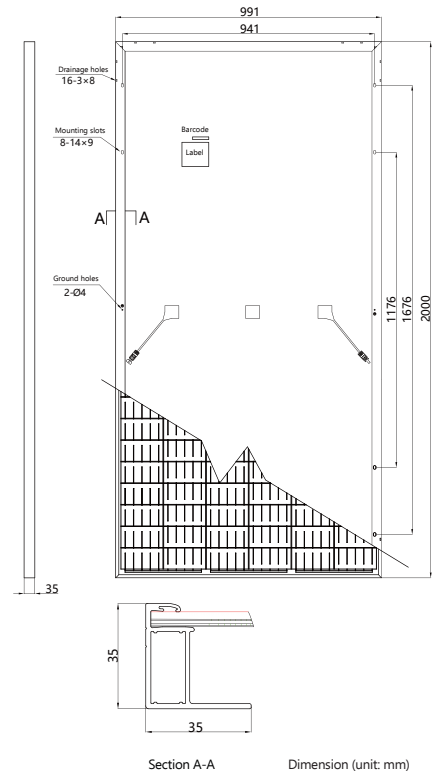
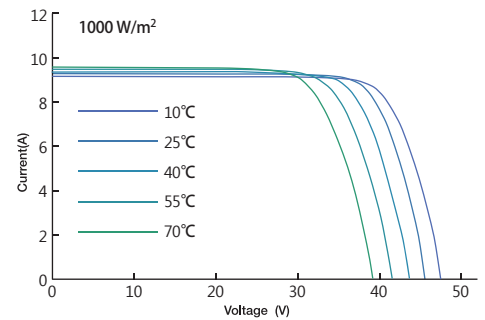
\*Power measurement tolerance: ±3%  
 \*Voc measurement tolerance: ±3%  
 \*Isc measurement tolerance: ±3%  
 \*Power Sorting: 5W

\*Modules Shipped to AU are made in China

## Current-Voltage Curve under different irradiance



## Current-Voltage Curve under different working temperatures



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