DuDrive Series TSHM-144HL

Trunsun High Efficiency Monocrystalline Half-cut Cell Solar Module with Perc Technonoly (1500V)

395-405W



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

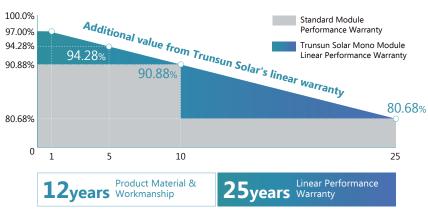
Minimize the impact by micro crack by limiting cell damage and potentially extending area by half-cut module architecture

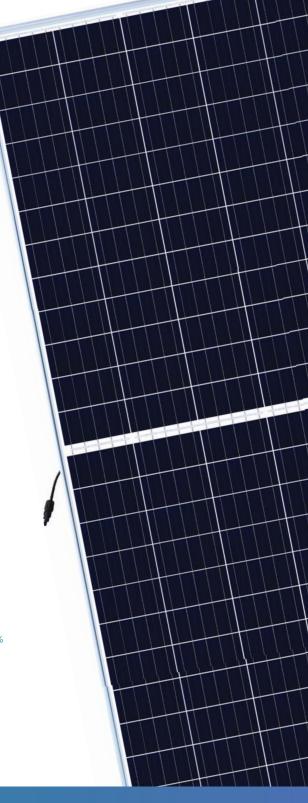


1500V System Voltage

Approved IEC1500Vdc system voltage, saving on BoS cost

LINEAR PERFORMANCE WARRANTY



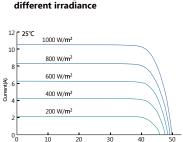




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Trunsun High Efficiency Monocrystalline Half-cut Cell Solar Module with Perc Technonoly (1500V)

ELECTRICAL DATA @ STC*	TSHM395-144HL	TSHM400-144HL	TSHM405-144HL	
Peak Power (Pmax)	(W) 395	400	405	_
Maximum Power Voltage (Vmp)	(V) 41.07	41.28	41.46	_
Maximum Power Current (Imp)	(A) 9.62	9.69	9.77	_
Open-circuit Voltage (Voc)	(V) 49.48	49.71	49.94	_
Short-circuit Current (Isc)	(A) 10.39	10.46	10.53	
Module Efficiency	%) 19.65	19.90	20.15	(y)
Operating Temperature		-40°C~+85°C		- 8
Maximum System Voltage		1500V		_
Maximum Series Fuse Rating		15A		_
Application Class		Class A		_
Power Telorance		0~+3%		_



Current-Voltage Curve under

ELECTRICAL DATA @ NMOT*

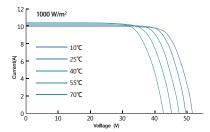
Peak Power (Pmax)	(W)	295	298	302
MPP Voltage (Vmp)	(V)	38.23	38.43	38.60
MPP Current (Imp)	(A)	7.70	7.76	7.82
Open Circuit Voltage (Voc)	(V)	46.87	47.09	47.31
Short Circuit Current (Isc)	(A)	8.38	8.44	8.50

 $^{^*}Under \ Nominal \ Module \ Operating \ Temperature \ (NMOT), Irradiance \ of 800W/\ m^{2}, Spectrum \ AM \ 1.5, Ambient \ Temperature \ 20^{\circ}C, Wind \ Speed \ 1m/s \ 1.5, Ambient \ Temperature \ 20^{\circ}C, Wind \ Speed \ 1m/s \ 1.5, Ambient \ Temperature \ 20^{\circ}C, Wind \ Speed \ 1m/s \ 1.5, Ambient \ Temperature \ 20^{\circ}C, Wind \ Speed \ 1m/s \ 1.5, Ambient \ Temperature \ 20^{\circ}C, Wind \ Speed \ 1m/s \ 1.5, Ambient \ Temperature \ 20^{\circ}C, Wind \ Speed \ 1m/s \ 1.5, Ambient \ Temperature \ 20^{\circ}C, Wind \ Speed \ 1m/s \ 1.5, Ambient \ Temperature \ 20^{\circ}C, Wind \ Speed \ 1m/s \ 1.5, Ambient \ Temperature \ 20^{\circ}C, Wind \ Speed \ 1m/s \ 1.5, Ambient \ Temperature \ 20^{\circ}C, Wind \ Speed \ 1m/s \ 1.5, Ambient \ Temperature \ 20^{\circ}C, Wind \ Speed \ 1m/s \ 1.5, Ambient \ Temperature \ 20^{\circ}C, Wind \ Speed \ 1m/s \ 1.5, Ambient \ Temperature \ 20^{\circ}C, Wind \ Speed \ 1m/s \ 1.5, Ambient \$

TEMPERATURE CHARACTERISTICS

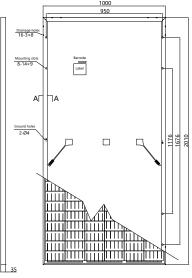
Temperature coefficient of Pmax	-0.38%/°C
Temperature coefficient of Voc	-0.31%/°C
Temperature coefficient of Isc	0.05%/°C
NMOT	41±3°C

Current-Voltage Curve under different working temperatures



MECHNICAL DATA

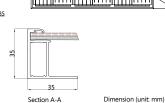
Cell Type	Mono-Crystalline, 158.75×79.38mm	
Cell Arrangement	144pcs (2×(6×12))	
Dimension (L×W×H)	2010×1000×35mm	
Weight	22.5kg	
Front Cover	3.2mm Tempered Glass	
Frame	Anodized Aluminium Alloy	
Junction Box	IP68, 3 Bypass Diodes	
Cable Type	4mm²	
Length of Cable	1250mm	
Connector	PV Connector	



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 produccts described herein.



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^{*}STC (Standard Test Condition): Irradiance 1000W/ m², Module Temperature 25°C, AM 1.5

^{*}Power measurement tolerance: ±3%