

M10 SERIES






TYDM144H 530~550W



M10 SERIES

TY redefined the high-efficiency module series by integrating 182mm silicon wafers with multi-busbar and half-cut cell technologies. TY module combined creative technology effectively and extremely improved the module efficiency and power output.

KEY FEATURES

-  Higher system voltages can effectively reduce BOS
-  Lower operating temperature and temperature coefficient, obtain higher profit
-  Significantly reduce the effect of hot spot temperature and shadow shielding
-  Half-cut design for better mechanical load performance
-  Ease of use in more demanding environments

MANAGEMENT SYSTEM

ISO9001:2015
 ISO14001:2015
 ISO45001:2018

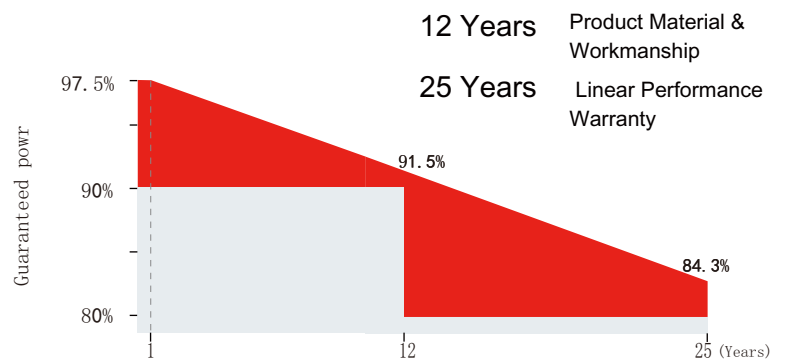
PRODUCT CERTIFICATION



TY is a leading manufacturer and service provider of professional Pv cells and modules that can be widely utilized in residence, commerce and ground Pv plant.

TY provides PV products with exceptional power output and reliability by integrating rigorous design, advanced production technology and fully automatic production equipment. Strict quality control and test standards confirm its pursuit of high quality output.

WARRANTY



xinyu tianyi new energy co., LTD

ADD: B Part, 1st floor, No 2 plant , No.888(industrial park) .Guangming Road, high & new technical development zone, xinyu city, jiangxi province

ELECTRICAL PARAMETERS@STC TYDM144H-530~550W

Max. Power Output Pmax (Wp)	530	535	540	545	550
Power Tolerance (%)	0~+3	0~+3	0~+3	0~+3	0~+3
Max. Power Voltage Vmp (V)	40.74	40.88	41.01	41.15	41.28
Max. Power Current Imp (A)	13.01	13.09	13.17	13.25	13.33
Open Circuit Voltage Voc (V)	49.26	49.40	49.53	49.67	49.80
Short Circuit Current Isc (A)	13.69	13.77	13.85	13.93	41.01
Module Efficiency (%)	20.5	20.7	20.9	21.1	21.3

STC (Standard Test Condition): Irradiance 1000W/m², Cell Temperature 25°C, Air Mass 1.5

ELECTRICAL PARAMETERS@NMOT

Max. Power Output Pmax (W)	394	398	402	407	411
Max. Power Voltage Vmp (V)	37.92	38.05	38.19	38.5	38.6
Max. Power Current Imp (A)	10.40	10.46	10.52	10.58	10.64
Open Circuit Voltage Voc (V)	46.50	46.63	46.75	46.88	47.01
Short Circuit Current Isc (A)	11.06	11.12	11.19	11.25	11.32

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

TEMPERATURE COEFFICIENTS

Temperature Coefficients of Pmax	-0.32%/°C
Temperature Coefficients of Voc	-0.26%/°C
Temperature Coefficients of Isc	+0.054%/°C

MECHANICAL PARAMETERS

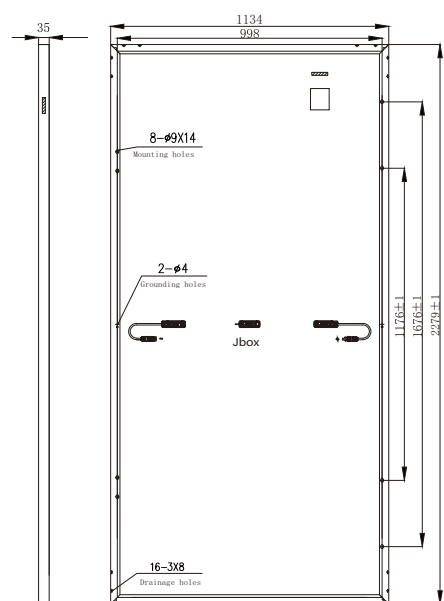
Cell Type	Mono 182×91mm
Number of Cells	144pcs (2×(6×12))
Dimensions (L*W*H)	2279×1134×35mm
Weight	29.5kg
Frame	Anodized Aluminum
Junction Box	Ip68
Cable, Length	4mm ² /300mm

OPERATING CONDITION

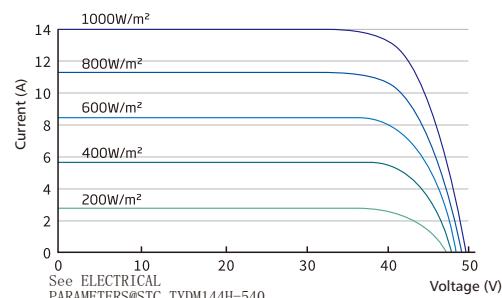
Maximum System Voltage(V)	1500(DC)
Operating Temperature(°C)	-40~+85
Max. Wind Load / Snow Load(Pa)	2400/5400
Max. Over Current(A)	25
Application Class	ClassA
Fire Rating	ClassC
NMOT(°C)	42±3

PACKAGE INFORMATION

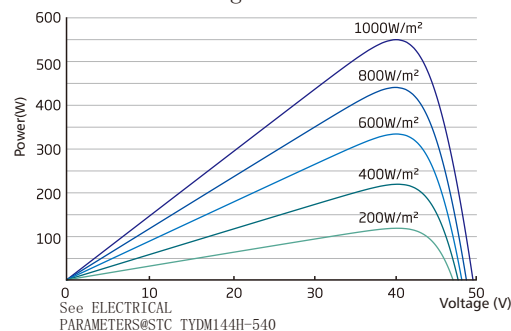
Per Pallet	31PCS
40' HQ	620PCS



Current--Voltage



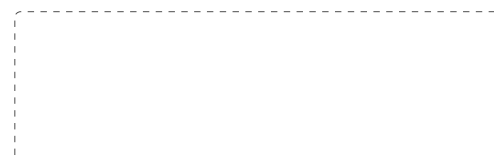
Power--Voltage



*Power measurement tolerance: ±3%

*No notice when product specifications change

Dealer information



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