



182M HALF CELL

580W-590W

Topcon Technology



SMBB Technology

Better light trapping and current collection to improve module power output and reliability.



PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



Higher Power Output

Module power increases 5-25% generally, bringing significantly lower LCOE and higher IRR.



Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).

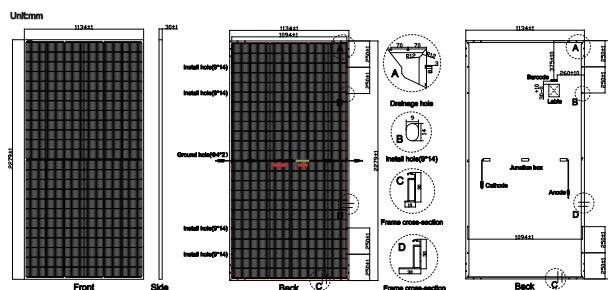


ELECTRICAL PERFORMANCE

Model Type	YH580W-36MHD/MH		YH590W-36MHD/MH	
Dimensions (L / W / H)	2279*1134*30		2279*1134*30	
Peak Power at STC (Pmax)	STC	NOCT	STC	NOCT
Maximum Power Voltage (Vmp)	580	437	590	445
Maximum Power Current (Imp)	42.37V	39.77V	42.67V	40.03V
Open Circuit Voltage (Voc)	13.69A	10.97A	13.83A	11.12A
Short Circuit Current (Isc)	51.02±3%	48.46±3%	51.30±3%	48.72±3%
Module Efficiency(%)	14.47±3%	11.68±3%	14.63±3%	11.83±3%
	22.45		22.83	

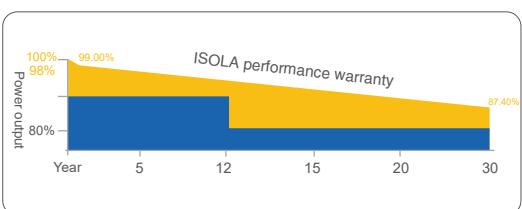
THERMAL CHARACTERISTICS & OPERATING CONDITIONS

Maximum System Voltage(V)	1500
Maximum Series Fuse Rating(A)	30A
Power Tolerance	0~+3W
Pmax Temperature Coefficients(W/°C)	-0.300%
Voc Temperature Coefficients(V/°C)	-0.250%
Isc Temperature Coefficients(A/°C)	+0.046%
NOCT Nominal Operating Cell Temperature(°C)	45±2°C
Operating and Storage Temperature(°C)	-40°C~+85°C



CONSTRUCTION MATERIALS

Double glass	Single glass
Front Cover (Material / Thickness)	w-iron tempered glass / 2.0m
Weight	31.20kg
Cell (Quantity/Type/Dimensions)	182*91N Type Bifacial Mono
No. of Cells	144(12*12)
Frame (Material)	Anodized Aluminium Alloy
Junction Box (Protection Degree)	IP68 3 diodes
Cable (Length/Cross-Sectional Area)	4mm ² cable 35cm+MC4



PACKAGING SPECIFICATIONS

- 20FT container 5Packages/185PCS
- 40HQ container 20Packages/740PCS



Irradiance 1000W/m²



Irradiance 800W/m²



Cell Temperature 25 C



Ambient Temperature 20 C

AM=1.5

AM=1.5



Please Scan Code