

182M HALF CELL

590W-600W

Topcon Technology

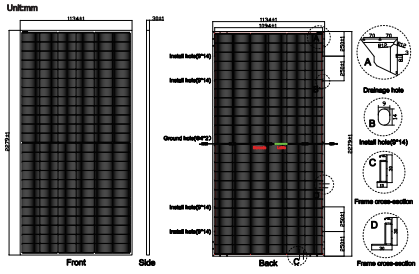


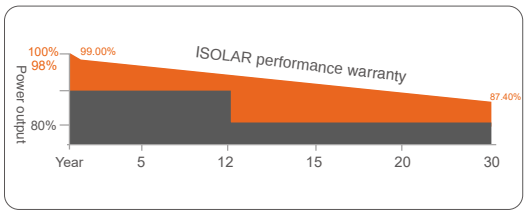
SMBB Technology
Better light trapping and current collection to improve module power output and reliability.

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).





THERMAL CHARACTERISTICS & OPERATING CONDITIONS

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

CONSTRUCTION MATERIALS

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 3diodes
Cable (Length/Cross-Sectional Area)	4mm² cable 30cm+MC4

ELECTRICAL PERFORMANCE

Model Type	POW-590W-NHD	POW-595W-NHD	POW-600W-NHD
	STC	STC	STC
Module Efficiency(%)	22.83	23.02	23.22
Peak Power at STC (Pmax)	590	595	600
Maximum Power Current (Imp)	13.83A	13.85A	13.86A
Maximum Power Voltage (Vmp)	42.67V	42.97V	43.30V
Short Circuit Current (Isc)	14.63±3%	14.74±3%	14.65±3%
Open Circuit Voltage (Voc)	51.30±3%	51.56±3%	51.41±3%
Dimensions (L / W / H)	2279*1134*30	2279*1134*30	2279*1134*30

PACKAGING SPECIFICATIONS

- 20FT container 5Packages/315PCS
- 40HQ container 20Packages/740PCS

STC Irradiance 1000W/m² Cell Temperature 25℃ AM=1.5
NOCT Irradiance 800W/m² Ambient Temperature 20℃ AM=1.5