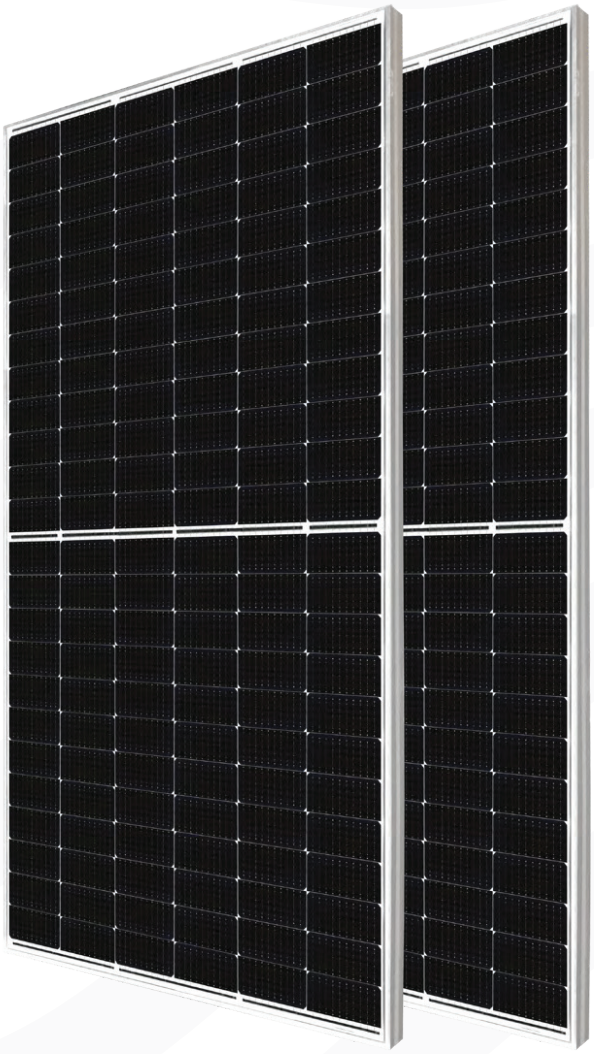
Fronus SOLAR ENERGY ® بھروسے اجالا زندگی میں

N-TOPCon Bifacial Monocrystalline Module

585W

DATASHEET

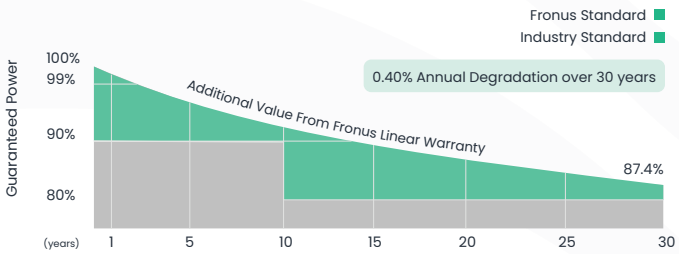


- Warranty Upgrades.
- No-Destructive Cutting.
- Safer smart manufacturing.
- Junction Box Laser Welding Technology.
- Suitable for centralised PV generation.
- High efficiency and strong power generation.

144 CELL N-TOPCon	**0~+3%** Power tolerance	**23.22%** Max. efficiency	**1500V DC** Max system voltage

LINEAR PERFORMANCE WARRANTY

15-Years product warranty / 30-years linear Power warranty



CERTIFICATIONS

IEC61215/IEC61730/IEC61701/IEC62716/WEEE De93315506

Higher Power Output

Module power increases by 5-25% generally, bringing significantly lower LCOE and higher IRR. 0-5W positive tolerance output warranty.

Multi Busbar Technology

By improving optical utilization rate, power increases by 2-3% and efficiency increases by 0.4-0.6%.

Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance certified by TUV NORD.

PID Resistance

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

Low-light Performance

Excellent performance in low light.

EL Full Inspection

Dual-stage 100% EL Inspection.

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PRODUCT DATA SHEET

RM-585-182M/144TB

N-TOPCon
Bifacial Monocrystalline Module

ELECTRICAL CHARACTERISTICS (STC*)

Rated Power in Watts-Pmax(Wp)	585
Open Circuit Voltage-Voc(V)	53.26
Short Circuit Current-Isc(A)	13.83
Max. Power Voltage-Vmpp(V)	45.06
Max. Power Current-Impp(A)	13.00
Module Efficiency(%)	22.6
Maximum system voltage	1500V DC
Fuse Rating(A)	30
Temperature coefficient Pmax	-0.29%/°C
Temperature coefficient Isc	0.045%/°C
Temperature coefficient Voc	-0.25%/°C
Refer. Bifacial Factor	ϕIsc=80%±10%, ϕVoc=100%± 3%, ϕPmax=80%±10%

*STC: Irradiance 1000W/m², module temperature 25°C, AM=1.5

MECHANICAL CHARACTERISTICS

Number of cells	144pcs
Type of cell	N-TOPCon Mono
Thickness of glass(mm)	2.0
Junction box	IP68, 1500V DC, 3 Diodes
Type of frame	Anodized Aluminum Alloy
Size of module(mm)	2278x1134x30
Weight(kg)	32
Cables/connectors	4.0mm², MC4 compatible
Length of Cable	+300mm/-200mm (connector included) Length can be customized

SPECIFICATIONS (BNPI)

Rated Power in Watts-Pmax(Wp)	619.1
Open Circuit Voltage-Voc(V)	53.45
Short Circuit Current-Isc(A)	15.21
Max. Power Voltage-Vmpp(V)	45.26
Max. Power Current-Impp(A)	14.30
Power tolerance	0~+3%
Operating Temperature	-40°C~85°C

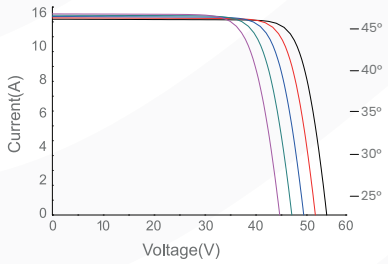
"BNPI: Irradiance: front 1000W/m², rear 135W/m², Cell Temperature 25°C, AM-1.5

PACKAGING CONFIGURATION

Height of Modules (mm)	30
Number of Modules Per Pallet	37
Packaging Box Dimensions (lxwxh) (mm)	2300x1140x1260
Box Gross Weight (kg)	1212
Number of Modules Per 40ft (HQ) Container	740
Number of Pallets Per 40ft (HQ) Container	20

I-V CHARACTERISTICS

at different temperatures (AM1.5, 1000W/m²



I-V CHARACTERISTICS

RM-585-182M/144TB at different irradiations

