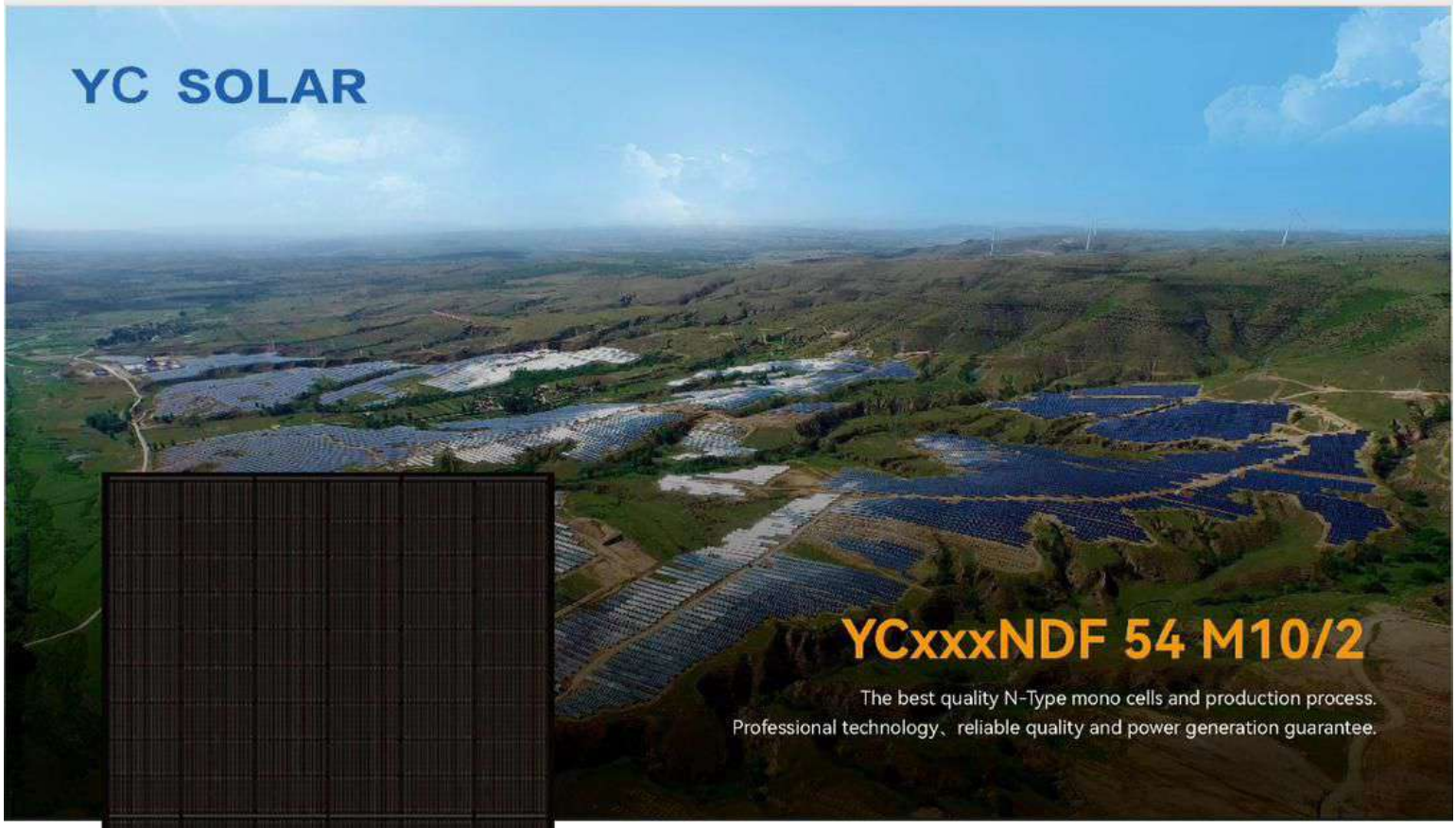
YC SOLAR



YCxxxNDF 54 M10/2

The best quality N-Type mono cells and production process.
Professional technology、reliable quality and power generation guarantee.

Higher Durability
The multi-busbar design can decrease the risk of the cell micro-cracks and fingers broken.

High Power Density
High conversion efficiency and more power output per square meter, by lower series resistance and improved light harvesting.

Half-cell Design
Less energy loss cased by shading due to new cell string layout and split J-box, and lower cell connection power loss due to half-cell design.

Bifacial Power
Bifacial panel,High generation revenue

Large size cell
The large cell design effectively increases module peak power and effectively reduces BOS costs, thereby reducing system costs.

22.5%
Module Efficiency

25YEAR
Product Warranty

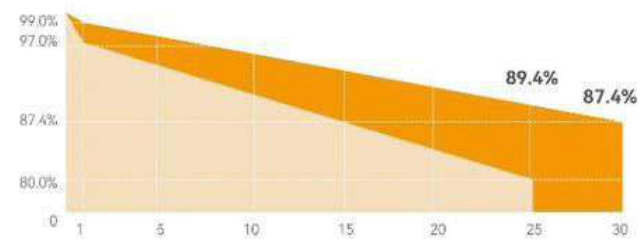
0~+5W
Power tolerance

QUALIFICATIONS & CERTIFICATES
IEC 61215, IEC 61730, IEC 62941: 2019, CE,
ISO 9001:2015, ISO 14001:2015,
ISO 45001:2018

Linear Warranty

First year attenuation≦1%, 2-30 year anual attenuation≦0.4%

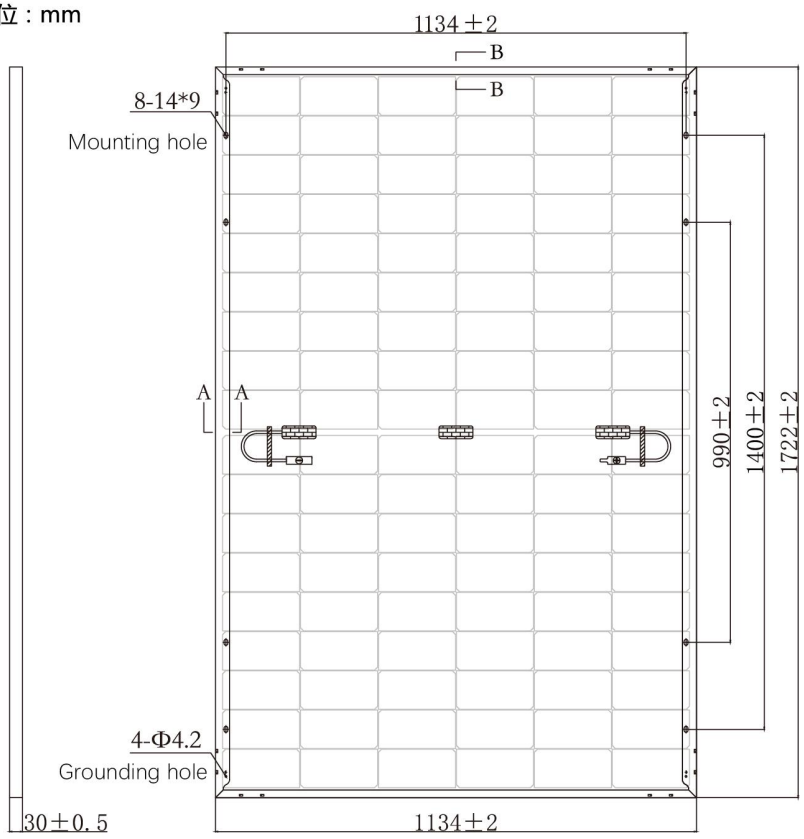
Linear Performance Warranty of YC Solar

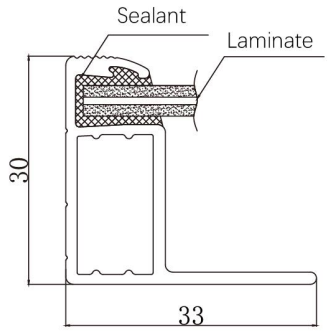


YC SOLAR

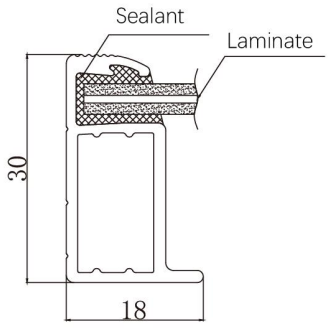
YCxxxPDF 54 M10/2

单位：mm





A



B

ELECTRICAL PERFORMANCE

Electrical parameters at Standard Test Conditions (STC)

Module type			YCxxxPDF54M10/2 (xxx=Pmax)				
Power output	P_{max}	W	400	405	410	415	420
Power output tolerances	ΔP_{max}	W	0/+5				
Module efficiency	η_m	%	20.50	20.80	21.00	21.30	21.55
Voltage at Pmax	V_{mpp}	V	30.65	30.80	30.95	31.10	31.25
Current at Pmax	I_{mpp}	A	13.06	13.15	13.25	13.35	13.45
Open-circuit voltage	V_{oc}	V	37.06	37.17	37.28	37.39	37.50
Short-circuit current	I_{sc}	A	13.78	13.86	13.94	14.02	14.10

STC: 1000W/m2 irradiance, 25°C module temperature, AM1.5g spectrum according to EN 60904-3.
Average relative efficiency reduction of 3.3% at 200W/m2 according to EN 60904-1.
Max test power tolerance ± 3%

Electrical parameters at Nominal Operating Cell Temperature (NOCT)

Power output	P_{max}	W	297.6	301.3	305.0	308.8	312.5
Voltage at Pmax	V_{mpp}	V	28.50	28.60	28.80	28.90	29.05
Current at Pmax	I_{mpp}	A	10.45	10.52	10.60	10.68	10.76
Open-circuit voltage	V_{oc}	V	34.70	34.80	34.90	35.00	35.10
Short-circuit current	I_{sc}	A	11.13	11.20	11.26	11.33	11.40

NOCT: open-circuit module operation temperature at 800W/m2 irradiance, 20°C ambient temperature, 1m/s wind speed.

OTHER INFORMATIONS

Cell Orientation	108 (18×6)
J-Box	IP68, three diodes
Cable	4mm², positive 500mm/negative 500mm,length can be customized
Glass	Dual Glass,2.0mm coated tempered glass
Frame	Anodized aluminum alloy
Weight	24.1kg
Dimensions	1722×1134×30mm
Packaging	36 modules per pallet/26 pallets per 40HQ

OPERATING CONDITIONS

Operating temperature range	-40℃ to 85℃
Power tolerance	0 ~ +5W
Voc & Isc tolerance	±3%
Max. system voltage	1500V_{DC}
Max. series fuse rating	30A
Nominal operating cell temperature	45±2℃
Protection Class	Class II
Bifacial Rate	70±5%

DO NOT connect Fuse in Combiner Box with two or more strings in parallel connection

THERMAL CHARACTERISTICS

Temperature coefficient of Pmax	γ	%/°C	-0.350
Temperature coefficient of Voc	β_{Voc}	%/°C	-0.270
Temperature coefficient of Isc	α_{Isc}	%/°C	+0.045

MECHANICAL LOADING

Max. static load, front (e.g., snow)	5400Pa
Max. static load, back (e.g., wind)	2400Pa
Max. hailstone impact (diameter / velocity)	25mm/23m/s

Warning：Read the Installation and User Manual in its entirety before handling, installing and operating YC Solar modules.

Yingchen New Energy Technology Co., LTD.