

YCxxxPDF 54 M10/2

The best quality p-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 microcracks 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.

12YEAR

21.55%

Product Warranty

Module Efficiency

0~+5W

Power tolerance

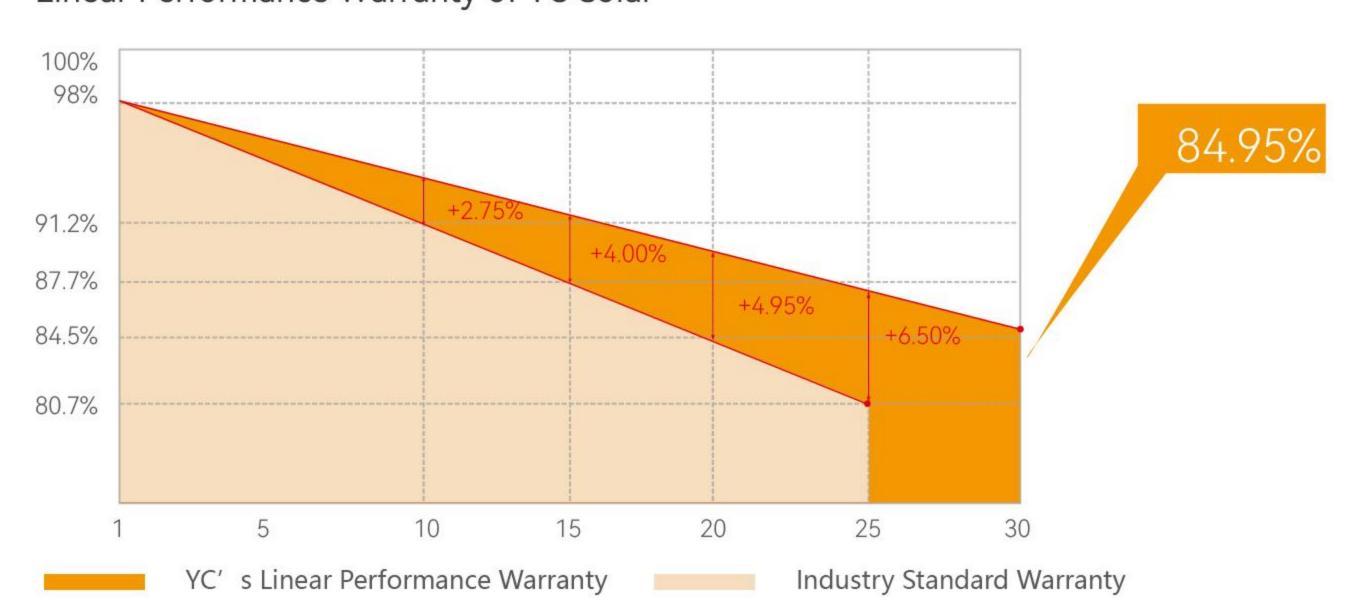
QUALIFICATIONS & CERTIFICATES

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

Linear Warranty

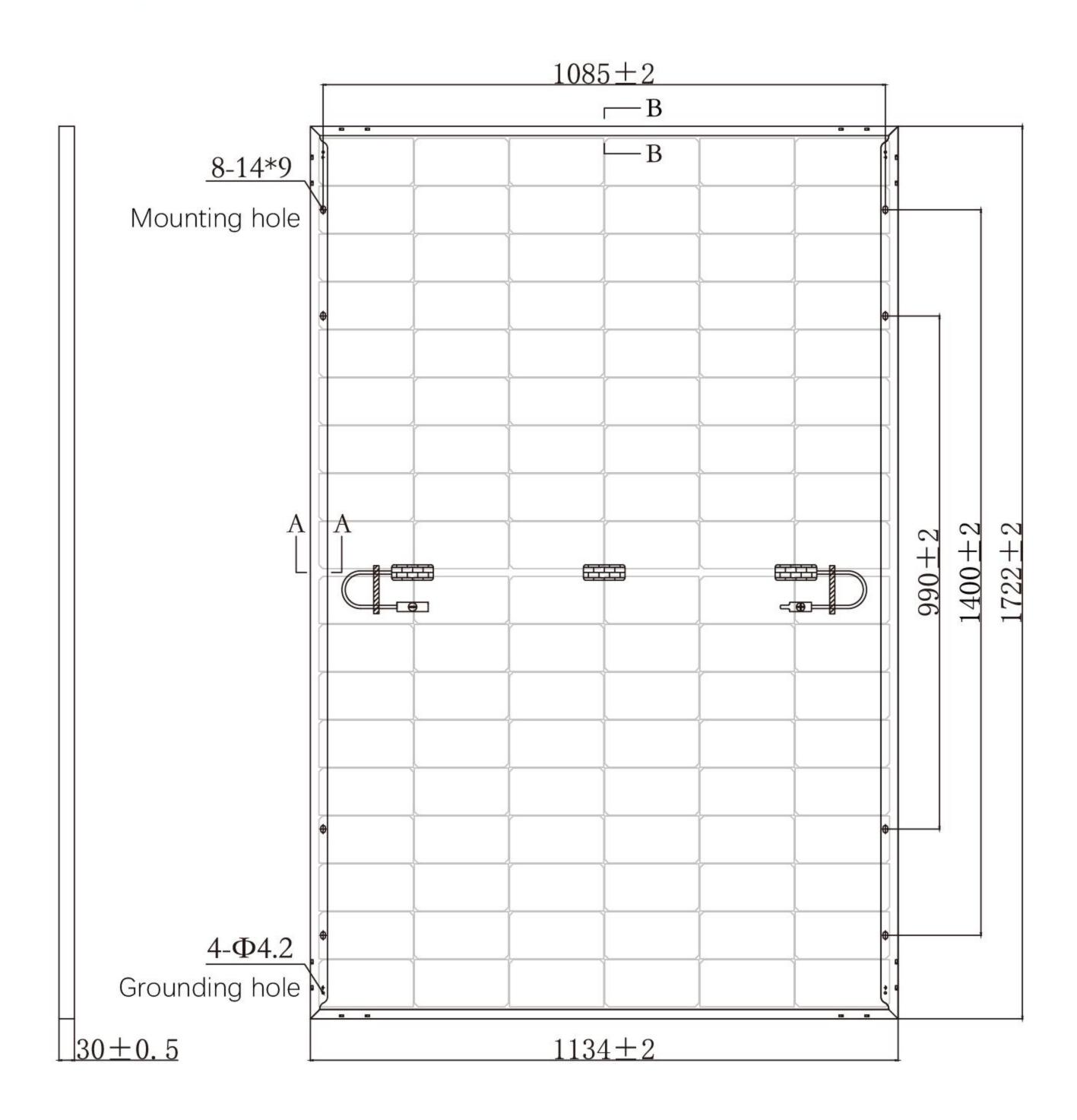
First year attenuation≦2%, 2-30 year anual attenuation≦0.45%

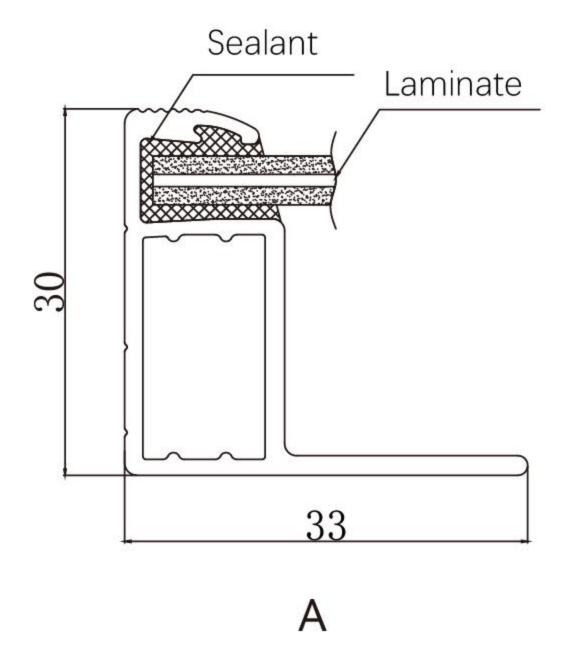
Linear Performance Warranty of YC Solar

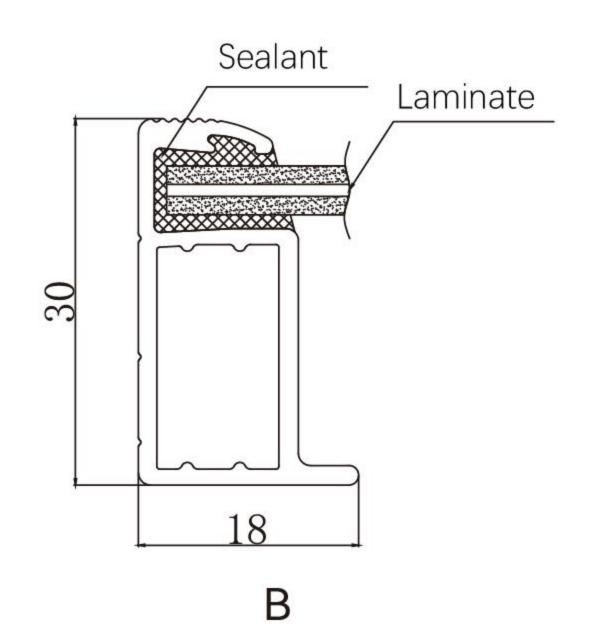


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ELECTRICAL PERFORMANCE

Electrical parameters at Standard Test Conditions (STC)

Module type	YCxxxPSF54M10/2 (xxx=Pmax)						
Power output	P _{max}	W	400	400 405 410 415			
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}	А	13.06	13.15	13.25	13.35	13.45
Open-circuit voltage	V _{oc}	٧	37.06	37.17	37.28	37.39	37.50
Short-circuit current	I _{sc}	Α	13.78	13.86	13.94	14.02	14.10

STC: 1000 W/m2 irradiance, 25°C module temperature, AM1.5g spectrum according to EN 60904-3. Average relative efficiency reduction of 3.3% at 200 W/m2 according to EN 60904-1. Max test power tolerance \pm 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}	٧	28.50	28.60	28.80	28.90	29.05
Current at Pmax	I _{mpp}	Α	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}	Α	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.

THERMAL CHARACTERISTICS

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

OTHER INFORMATIONS

Cell Orientation	108 (18×6)			
J-Box	IP68, three diodes			
Cable	4mm², positive 300mm/negative 300mm,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°C to 85°C	
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

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		