



YCxxxPSF 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 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 caused by shading due to new cell string layout and split J-box, and lower cell connection power loss due to half-cell design.



Power guarantee

First year attenuation $\leq 2\%$, 2-25 year anual attenuation $\leq 0.55\%$



Large size cell

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

21.76%

Module Efficiency

12YEAR

Product Warranty

0~+4.99W

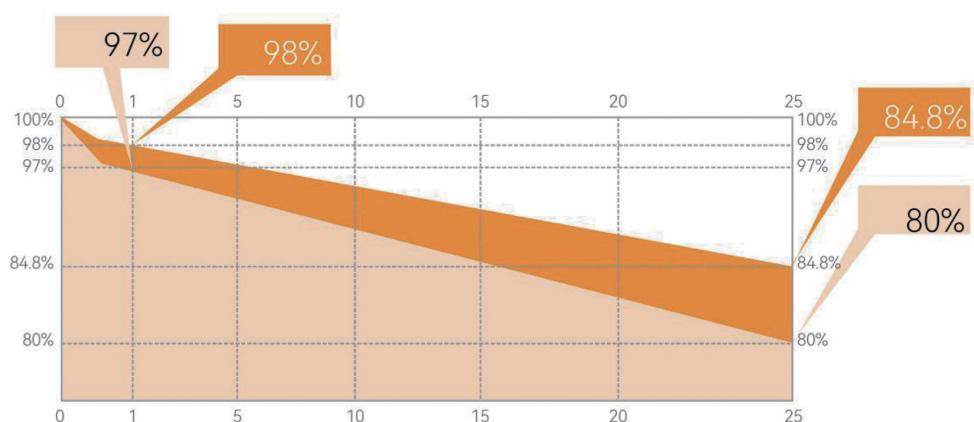
Power tolerance

QUALIFICATIONS & CERTIFICATES

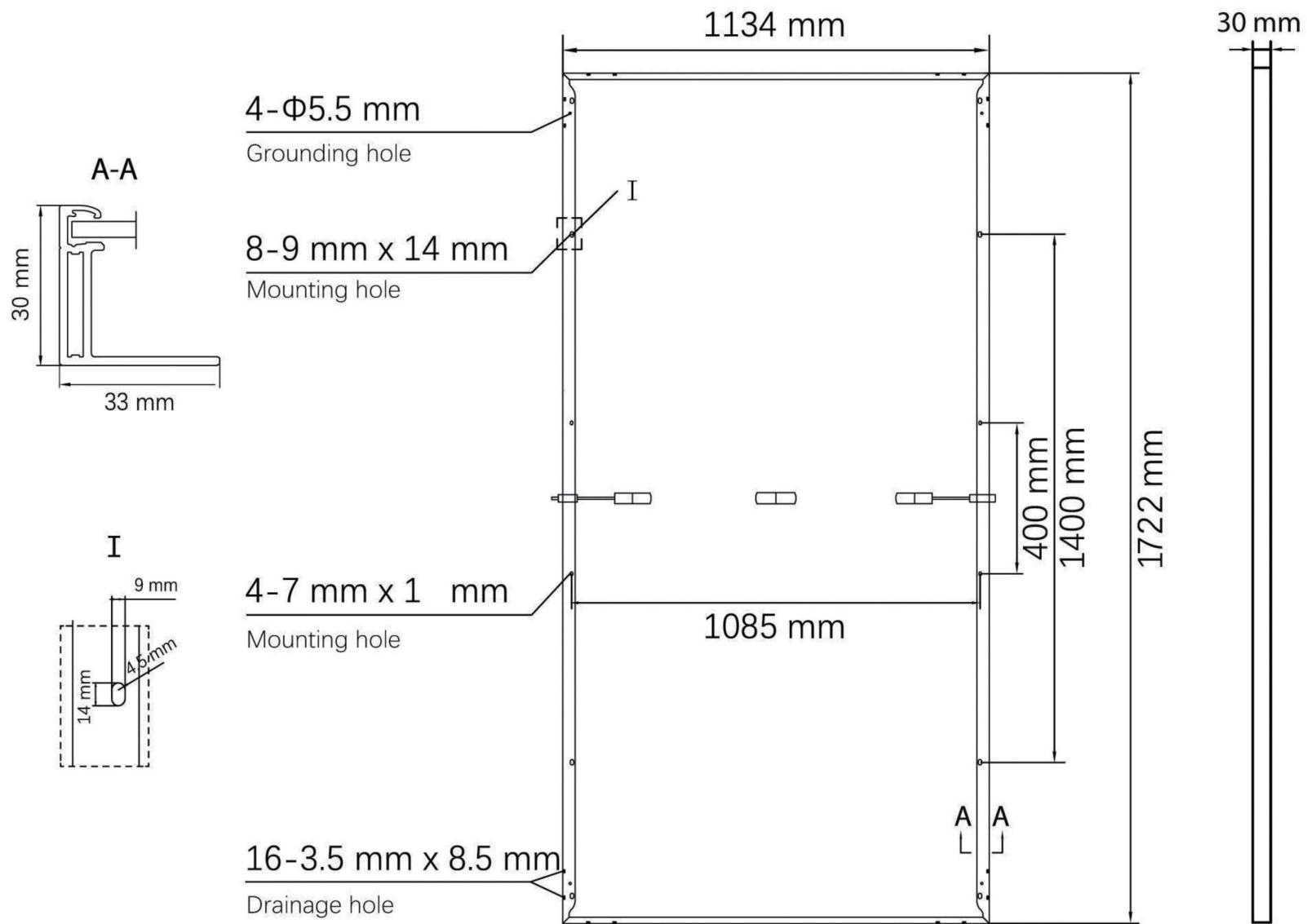
IEC 61215, IEC 61730, CE, ISO 9001:2015,
ISO 14001:2015, ISO 45001:2018

Linear Warranty

First year attenuation $\leq 2\%$, 2-25 year anual attenuation $\leq 0.55\%$



YC's Linear Performance Warranty Industry Standard Warranty



ELECTRICAL PERFORMANCE

Electrical parameters at Standard Test Conditions (STC)

Module type	YC xxx PSF 54 M10/2 (xxx=Pmax)							
	P _{max}	W	400	405	410	415	420	425
Power output								
Power output tolerance			0~+4.99					
Module efficiency	η _m	%	20.48	20.74	21.00	21.25	21.51	21.76
Voltage at Pmax	V _{mp}	V	30.9	31.1	31.3	31.5	31.7	31.9
Current at Pmax	I _{mp}	A	12.95	13.03	13.10	13.18	13.25	13.33
Open-circuit voltage	V _{oc}	V	37.1	37.3	37.5	37.7	37.9	38.1
Short-circuit current	I _{sc}	A	13.70	13.77	13.84	13.91	13.98	14.05

STC: 1000W/m² irradiance, 25°C cell 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	YC xxx PSF 54 M10/2 (xxx=Pmax)							
	P _{max}	W	300.20	303.90	307.40	311.10	314.60	318.40
Voltage at Pmax	V _{mp}	V	28.60	28.80	29.00	29.20	29.30	29.50
Current at Pmax	I _{mp}	A	10.50	10.56	10.61	10.67	10.72	10.78
Open-circuit voltage	V _{oc}	V	34.70	34.90	35.10	35.20	35.40	35.60
Short-circuit current	I _{sc}	A	11.06	11.12	11.18	11.23	11.29	11.35

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	Split junction box, IP68, three diodes
Cable	4mm ² , positive 400mm/negative 200mm, length can be customized
Connectors	PV-XT101.2, Suzhou Xtong Photovoltaic Technologies Co., Ltd PV Modules manufactured in China.
Glass	3.2mm tempered glass
Frame	Anodized aluminum alloy
Weight	21.3kg
Dimensions	1722×1134×30mm
Packaging	36 modules per pallet/26 pallets per 40HQ

Specifications included in this datasheet are subject to change without notice;
The right of final interpretation belongs to Yingchen New Energy Technology Co., LTD.

THERMAL CHARACTERISTICS

Temperature coefficient of Pmax	γ	%/°C	-0.350
Temperature coefficient of Voc	β _{Voc}	%/°C	-0.290
Temperature coefficient of Isc	α _{Isc}	%/°C	+0.050

OPERATING CONDITIONS

Operating temperature range	-40°C 至 85°C
Power tolerance	0 ~ +5W
Voc&Isc tolerance	±3%
Max. system voltage	1500Vdc
Max. series fuse rating	25A
Nominal operating cell temperature	45±2°C
Protection Class	Class II
Component fire rating	IEC Class C

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

MECHANICAL LOADING

Max. static load, front (e.g., snow)	5400 Pa
Max. static load, back (e.g., wind)	2400 Pa
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.

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