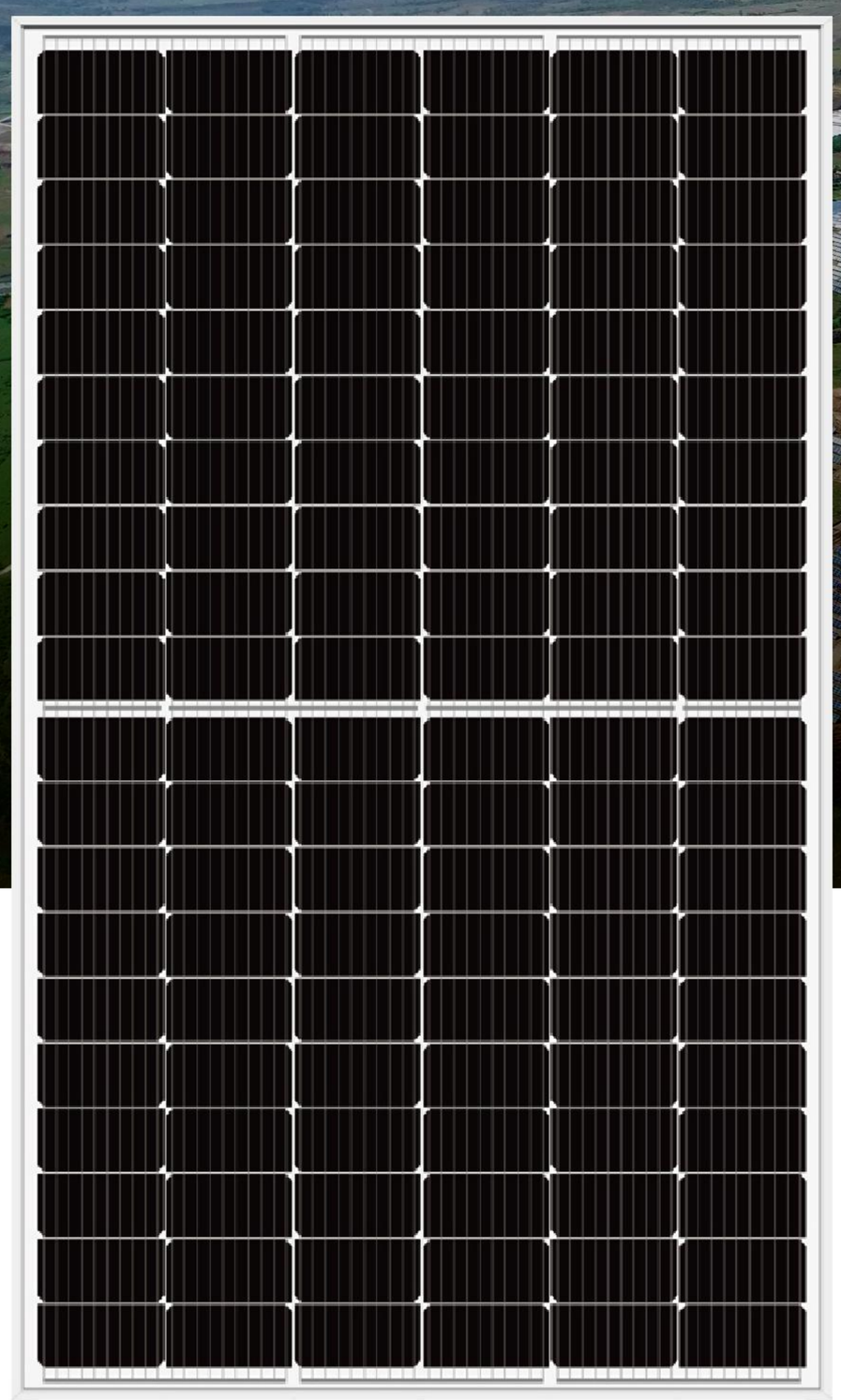
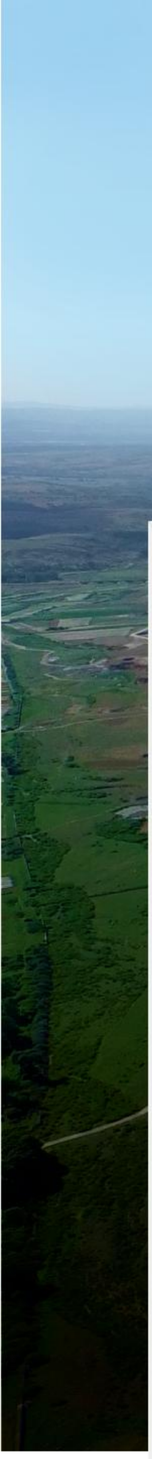
YCSOLAR
英辰新能源





YCxxxPSF 60 M10/2

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

21.78%
Module Efficiency

12YEAR
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

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.

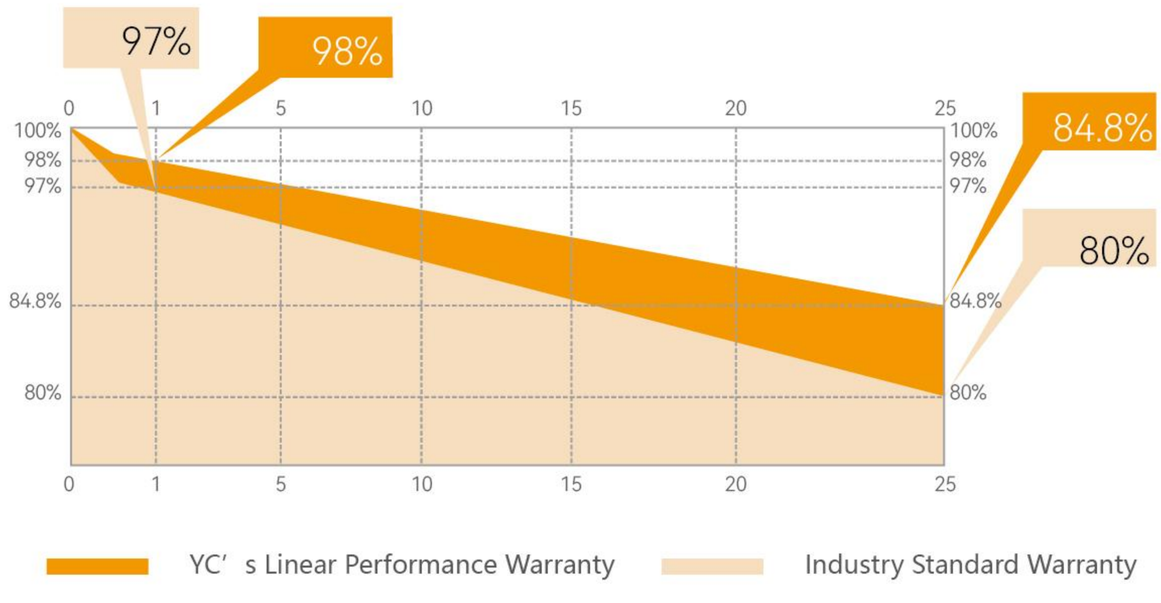
Half-cell Design
Less energy loss cased by shading due to new cell string layout and split J-box, and lower cell connection power loss due to half-cell design.

Power guarantee
First year attenuation≦2%，2-25 year anual attenuation≦0.55%

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

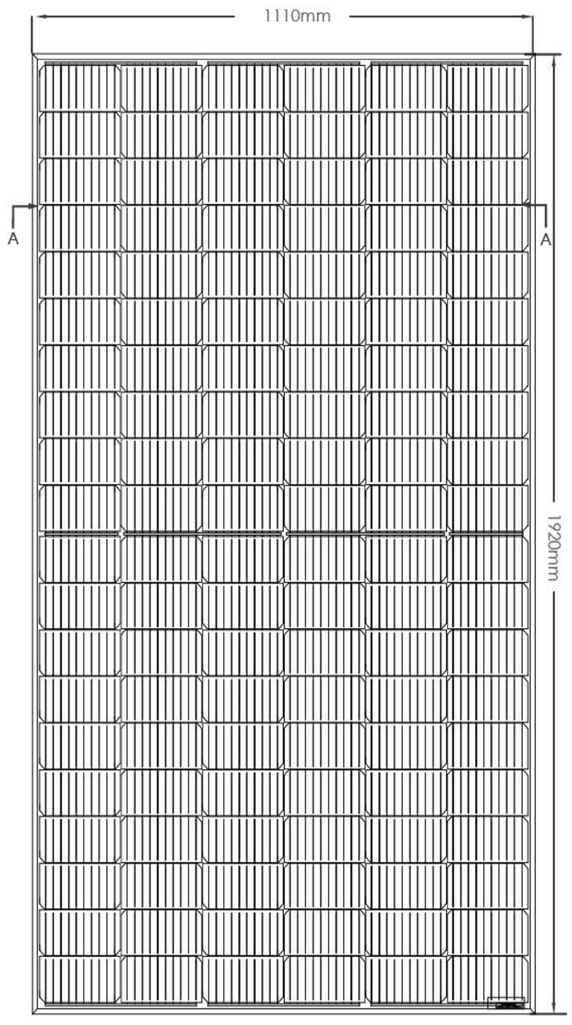
Linear Warranty

First year attenuation≦2%，2-25 year anual attenuation≦0.55%

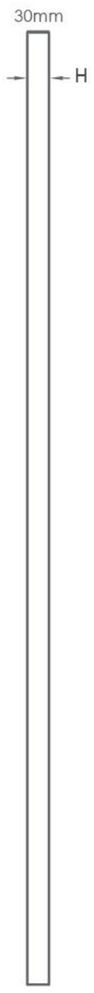


YCxxxPSF 60 M10/2

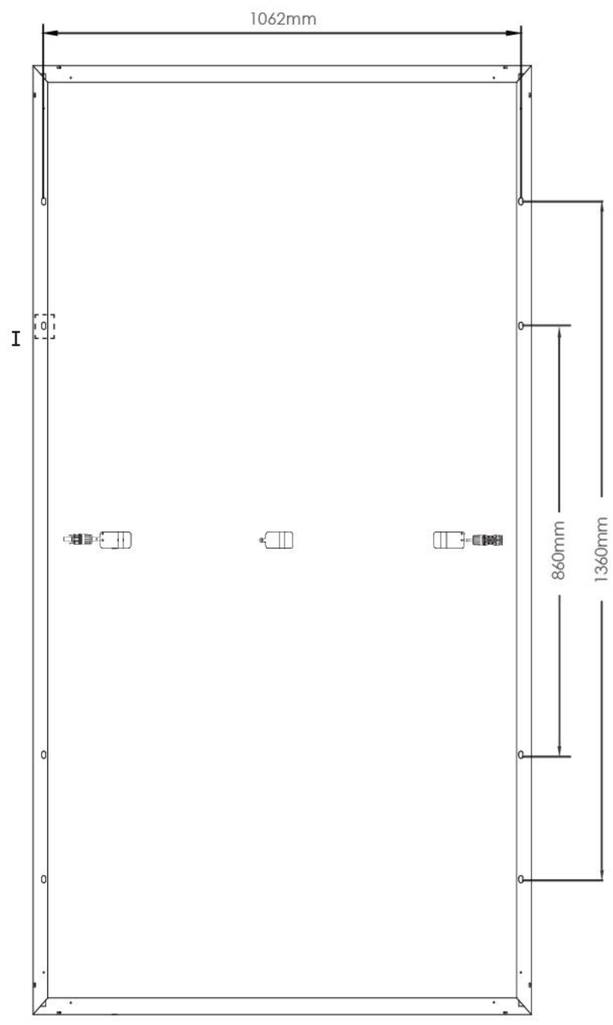
YCSOLAR 英辰新能源



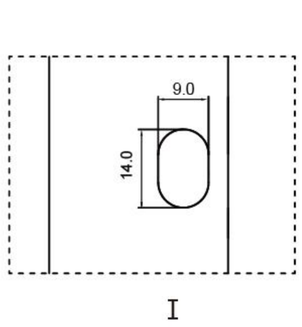
Front



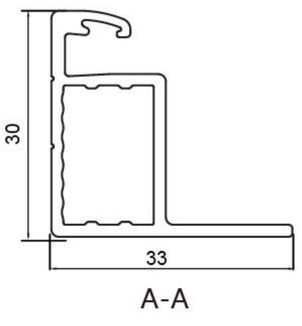
Side



Back



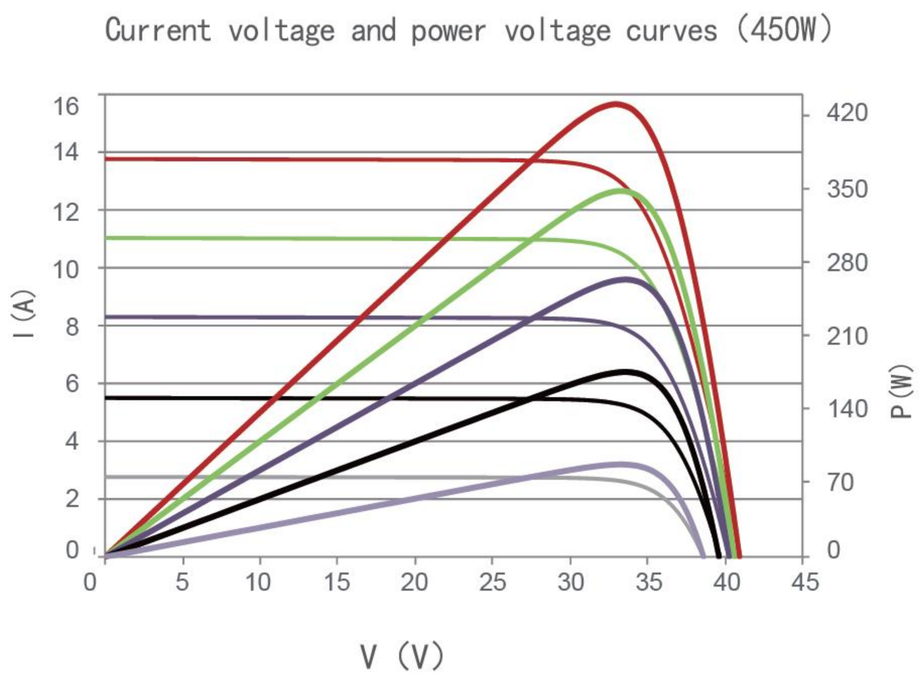
I



A-A

Long: ±2mm		Thickness: ±1mm	
Wide: ±2mm		Hole spacing: ±2mm	

Characteristic curve



ELECTRICAL PERFORMANCE

Electrical parameters at Standard Test Conditions (STC)

Module type			YC xxx PSF 60 M10/2 (xxx=Pmax)				
Power output	P_{max}	W	450	455	460	465	470
Power output tolerances	ΔP_{max}	W	0/+5				
Module efficiency	η_m	%	20.85	21.08	21.32	21.55	21.78
Voltage at Pmax	V_{mpp}	V	33.91	34.06	34.20	34.37	34.56
Current at Pmax	I_{mpp}	A	13.27	13.36	13.45	13.53	13.60
Open-circuit voltage	V_{oc}	V	41.18	41.33	41.48	41.63	41.78
Short-circuit current	I_{sc}	A	13.85	13.93	14.01	14.09	14.17

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	335	339	342	346	350
Voltage at Pmax	V_{mpp}	V	31.73	31.91	32.07	32.12	32.32
Current at Pmax	I_{mpp}	A	10.55	10.61	10.67	10.77	10.82
Open-circuit voltage	V_{oc}	V	38.87	39.01	39.15	39.29	39.43
Short-circuit current	I_{sc}	A	11.19	11.25	11.32	11.38	11.44

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

OTHER INFORMATIONS

Cell Orientation	120 (20×6)
J-Box	IP68, three diodes
Cable	4mm², positive 300mm/negative 300mm,length can be customized
Glass	3.2mm tempered glass
Frame	Anodized aluminum alloy
Weight	24.2kg
Dimensions	1920×1110×30mm
Packaging	36 modules per pallet/24 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	25A
Nominal operating cell temperature	45±2℃
Protection Class	Class II

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.