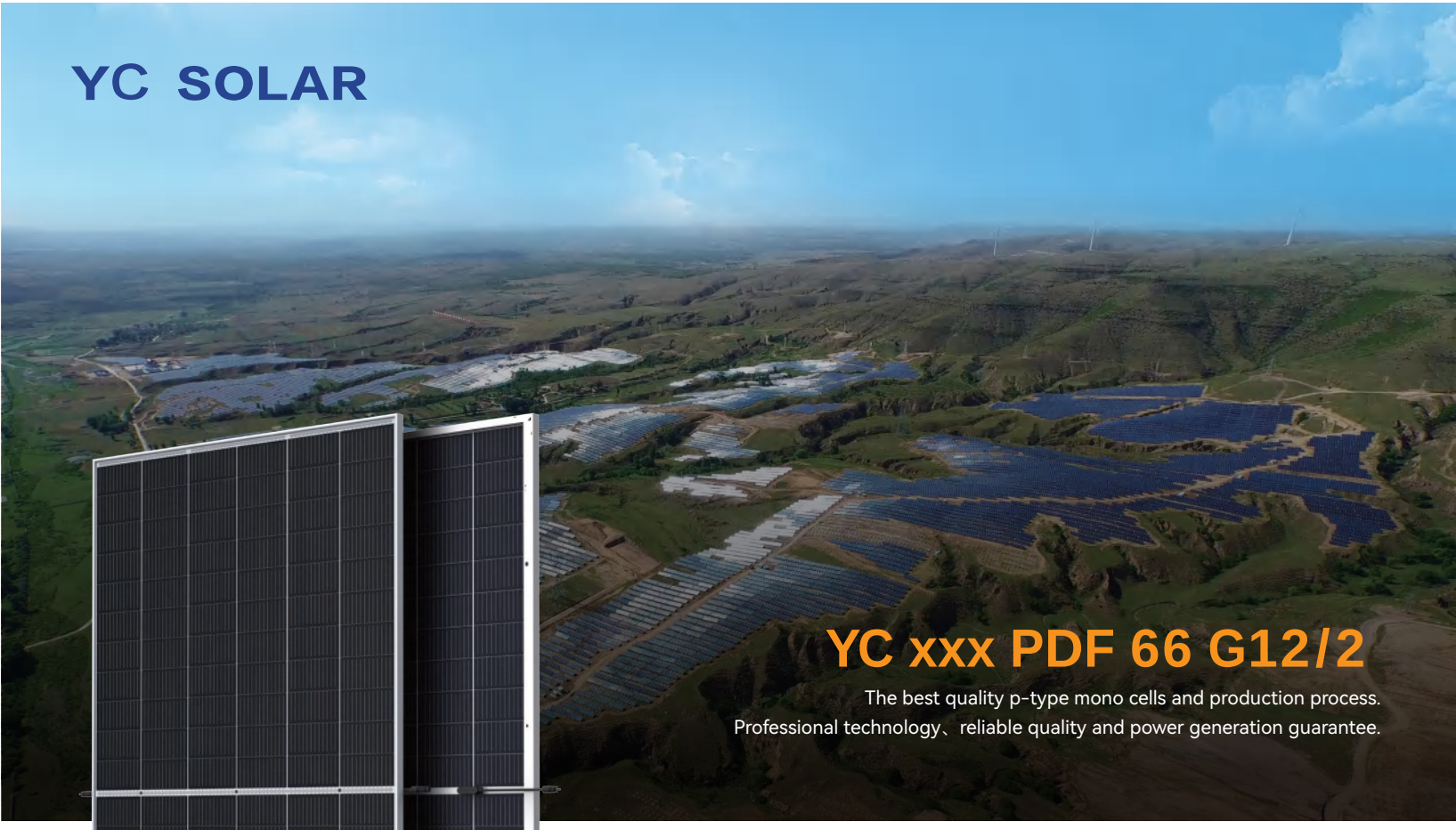
YC SOLAR



YC xxx PDF 66 G12/2

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 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.

21.6%
Module Efficiency

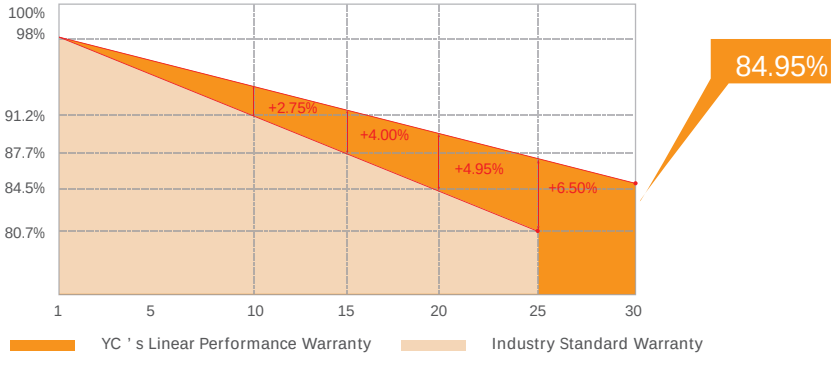
12YEAR
Product Warranty

0~+5W
Power tolerance

Linear Warranty

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

Linear Performance Warranty of YC Solar

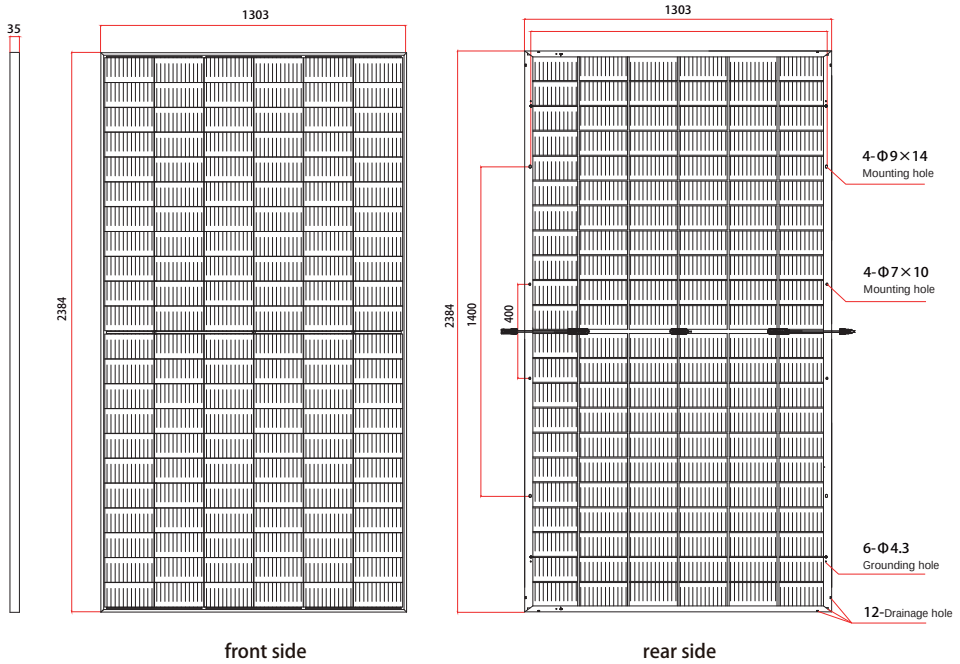


QUALIFICATIONS & CERTIFICATES

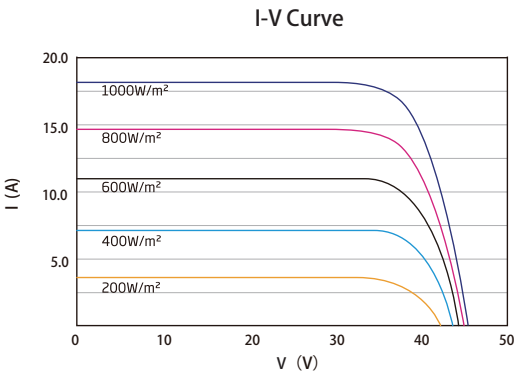
IEC 61215, IEC 61730, CE, ISO 9001:2015,
ISO 14001:2015, ISO450012018

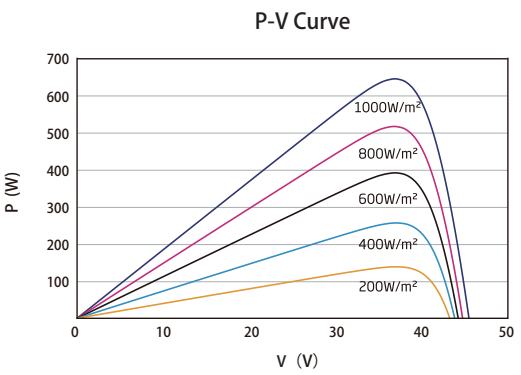
YC SOLAR

YC xxx PDF 66 G12/2



Characteristic curve





ELECTRICAL PERFORMANCE

Electrical parameters at Standard Test Conditions (STC)

Module type			YC xxx PDF 66 G12/2 (xxx=Pmax)							
Power output	P_{max}	W	635	640	645	650	655	660	665	670
Power output tolerances	ΔP_{max}	W	0/+5							
Module efficiency	η_m	%	20.40	20.60	20.80	20.90	21.10	21.20	21.40	21.60
Voltage at Pmax	V_{mpp}	V	37.10	37.30	37.50	37.70	37.90	38.10	38.30	38.50
Current at Pmax	I_{mpp}	A	17.15	17.19	17.23	17.27	17.31	17.35	17.43	17.43
Open-circuit voltage	V_{oc}	V	44.90	45.10	45.30	45.50	45.70	45.90	46.10	46.30
Short-circuit current	I_{sc}	A	18.21	18.26	18.31	18.35	18.40	18.45	18.50	18.54

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	635	640	645	650	655	660	665	670
Voltage at Pmax	V_{mpp}	V	34.60	34.70	34.90	35.10	35.20	35.40	35.60	35.70
Current at Pmax	I_{mpp}	A	13.90	13.94	13.98	14.01	14.05	14.10	14.30	14.17
Open-circuit voltage	V_{oc}	V	42.30	42.50	42.70	42.90	43.00	43.20	43.40	43.60
Short-circuit current	I_{sc}	A	14.67	14.71	14.75	14.79	14.83	14.87	14.91	14.95

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

OTHER INFORMATIONS

Cell Orientation	132 (22×6)
J-Box	IP68, three diodes
Cable	4mm², positive 400mm/negative 200mm,length can be customized
Glass	Dual Glass,2.0mm coated tempered glass
Frame	Anodized aluminum alloy
Weight	38.7kg
Dimensions	2384×1303×35mm
Packaging	31 modules per pallet/18 pallets per 40' container

THERMAL CHARACTERISTICS

Nominal operating cell temperature	NOCT	°C	45± 2
Temperature coefficient of Pmax	γ	%/°C	-0.350
Temperature coefficient of Voc	β_{Voc}	%/°C	-0.284
Temperature coefficient of Isc	α_{Isc}	%/°C	+0.050

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	35A
Nominal operating cell temperature	45±2°C
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

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