

## Monocrystalline Solar Module

410W-430W Mono BIFACIAL

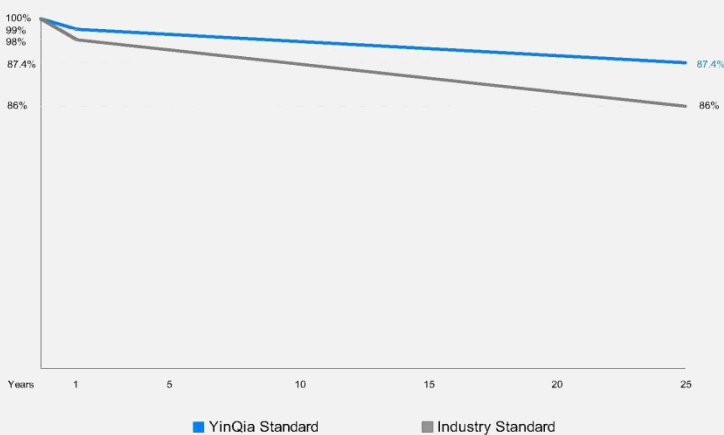
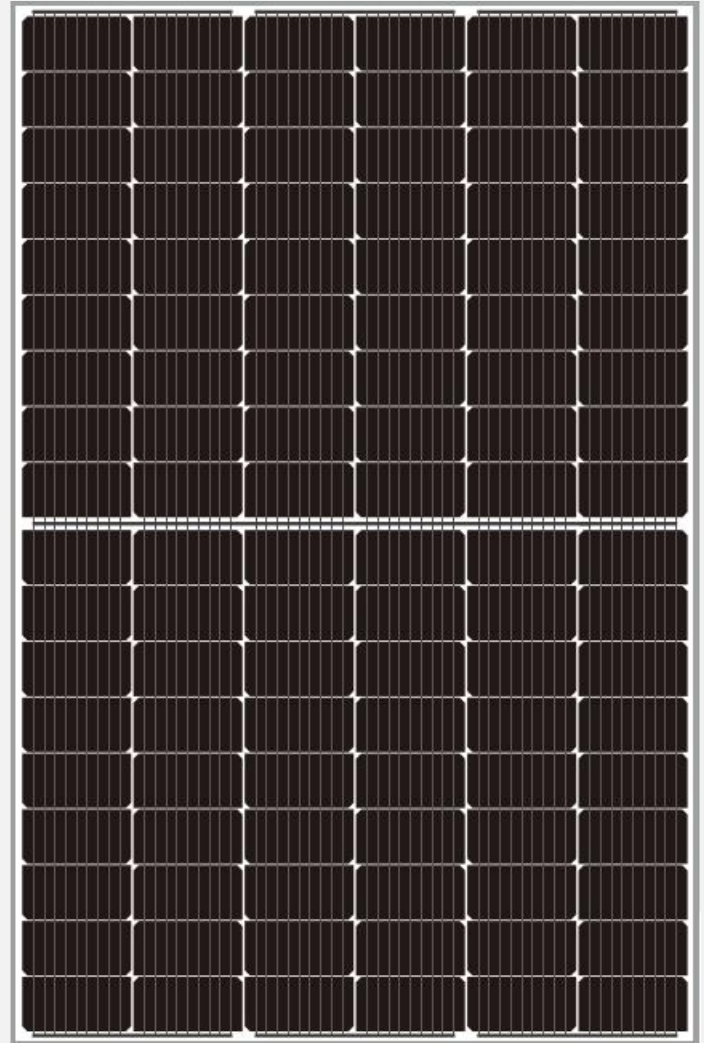
182mm N-TOPCon Cell 108 Half-cell Layout

### Features

- ◆ High cell efficiency with quality silicon material for long term output stability and reliability
- ◆ Rigorous quality control to meet highest international standards
- ◆ High transmittance low iron tempered glass with enhanced Stiffness and impact resistance
- ◆ Unique frame design with high mechanical strength for easy installation
- ◆ Advanced encapsulation material with multi-layer sheet lamination to provide efficient protection from the severest environmental conditions
- ◆ Outstanding electrical performance under high temperature and low irradiance conditions

### Applications

- ◆ Any large or small on-grid or off-grid solar power stations
- ◆ Commercial and industrial building roof-top systems
- ◆ Residential roof-top systems
- ◆ Any commercial or industrial ground mount systems
- ◆ Other industrial or commercial applications



- ISO9001:2015QMS
- ISO14001:2015EMS
- ISO45001:2018OHSMS
- IEC/EN 61215, IEC/EN 61730 Standard



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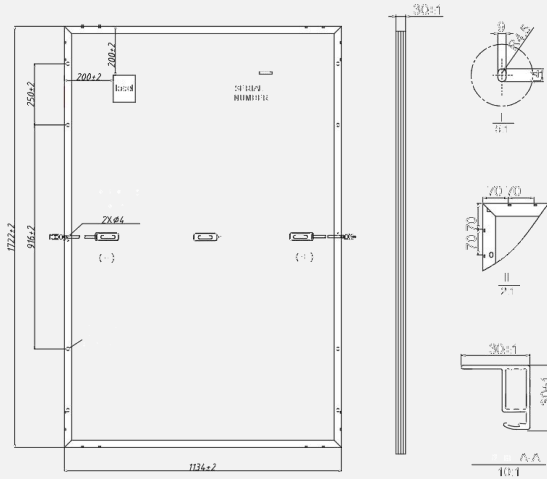
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# YQ Mono I 410W-430W BIFACIAL

## MECHANICAL CHARACTERISTICS

Solar Cells	N-type Mono
NO.of Cells	108(6×18)
Dimensions	1722×1134×35mm
Weight	23.5kgs
Front Glass	2.0mm coated semi tempered glass
Back Glass	2.0mm semi-tempered
Junction Box	Ip68 rated(3 by pass diodes)
	4.0mm <sup>2</sup>
Output Cables	300mm
	Length can be customized
Connectors	Mc4 compatible
Mechanical load test	5400Pa



## ELECTRICAL PARAMETERS

POWER CLASS	YQTF-410ND	YQTE-415ND	YQTE-420ND	YQTE-425ND	YQTE-430ND
	STC	STC	STC	STC	STC
Maximum power (Pmax)	<b>410W</b>	<b>415W</b>	<b>420W</b>	<b>425W</b>	<b>430W</b>
Open Circuit Voltage (Voc)	<b>38.01V</b>	<b>38.25V</b>	<b>38.49V</b>	<b>38.73V</b>	<b>38.96V</b>
Short Circuit Current (Isc)	<b>13.85A</b>	<b>13.92A</b>	<b>13.99A</b>	<b>14.06A</b>	<b>14.13A</b>
Voltage at Maximum power (Vmp)	<b>31.20V</b>	<b>31.42V</b>	<b>31.63V</b>	<b>31.84V</b>	<b>32.04V</b>
Current Maximum Power (Imp)	<b>13.14A</b>	<b>13.21A</b>	<b>13.28A</b>	<b>13.35A</b>	<b>13.42A</b>
MODULE EFFICIENCY (%)	<b>21.0%</b>	<b>21.25%</b>	<b>21.51%</b>	<b>21.76%</b>	<b>22.02%</b>

STC:Irradiance 1000W/m<sup>2</sup>,cell temperature 25°C,AM 1.5G NOCT:Irradiance 800W/m<sup>2</sup>,ambient temperature 20°C,wind speed 1m/s,AM 1.5G

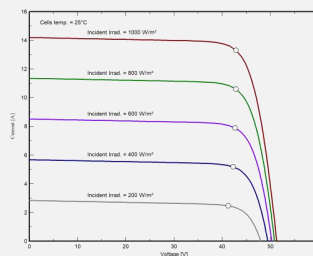
## BIFACIAL OUTPUT-REAR SIDE POWER GAIN

		431W	436W	441W	446W	452W
5%	Maximum power (Pmax)	<b>431W</b>	<b>436W</b>	<b>441W</b>	<b>446W</b>	<b>452W</b>
	Module Efficiency STC (%)	<b>22.05%</b>	<b>22.31%</b>	<b>22.58%</b>	<b>22.85%</b>	<b>23.12%</b>
15%	Maximum power (Pmax)	<b>472W</b>	<b>477W</b>	<b>483W</b>	<b>489W</b>	<b>495W</b>
	Module Efficiency STC (%)	<b>24.15%</b>	<b>24.44%</b>	<b>24.73%</b>	<b>25.03%</b>	<b>25.32%</b>
25%	Maximum power (Pmax)	<b>513W</b>	<b>519W</b>	<b>525W</b>	<b>531W</b>	<b>538W</b>
	Module Efficiency STC (%)	<b>26.25%</b>	<b>26.57%</b>	<b>26.89%</b>	<b>27.21%</b>	<b>27.53%</b>

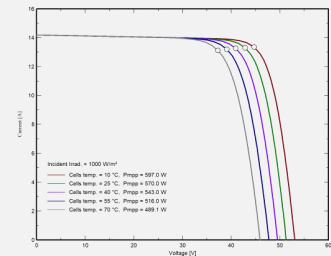
## PACKING CONFIGURATION

Container	20'GP	40'HQ
Pieces per pallet	31	31+31
Pallets/container	6	13
Piece/ container	186	806
Dimension/Pallet	1214×1138 mm	1802×1138 mm
Gross/pallet	778Kg	1556Kg

## I-V CURVE



## I-V CURVE



## OPERATING CHARACTERISTICS

Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500 DC (IEC)
Maximum Series Fuse Rating	25A
Power Tolerance	0/+5W

## TEMPERATURE CHARACTERISTICS

Nominal Operating Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.30%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	+0.05%/°C

**Note:** Due to continuous technical innovation, R&D and improvement, technical data above mentioned may be of modification accordingly. YQ SOLAR have the sole right to make such modification at anytime without further notice.