

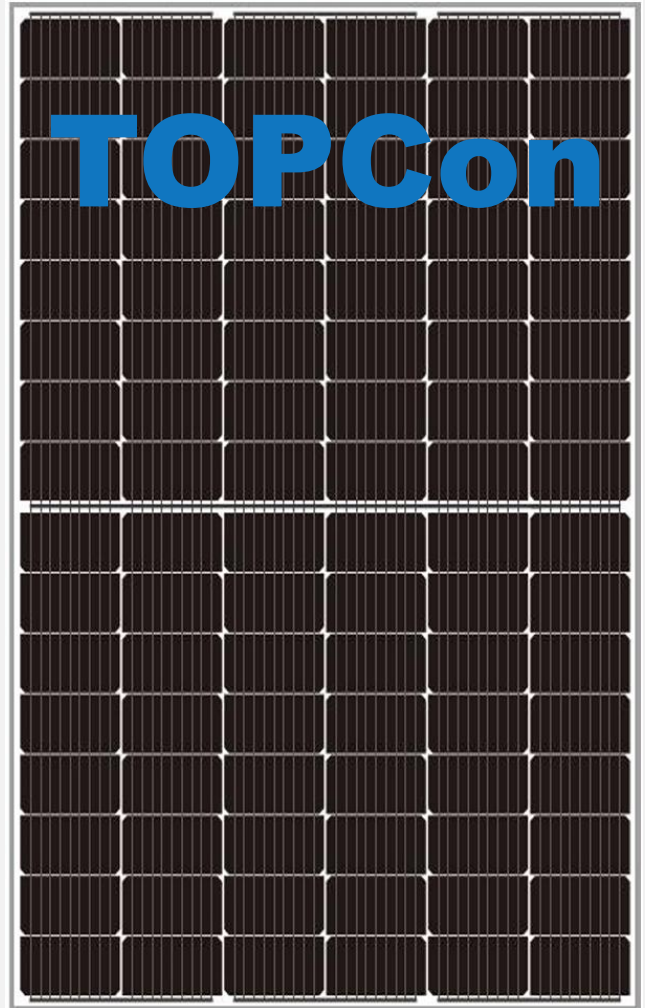
Monocrystalline Solar Module

435W-455W Mono BIFACIAL

210mm-182mm N-TOPCon Cell 96 Half-cell Layout

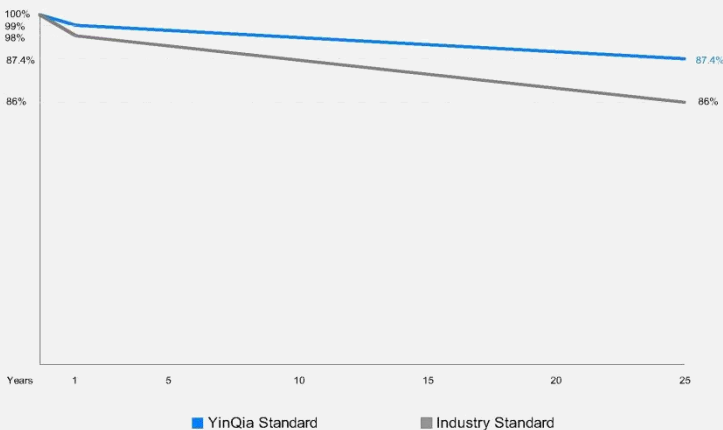
Features

- ◆ 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



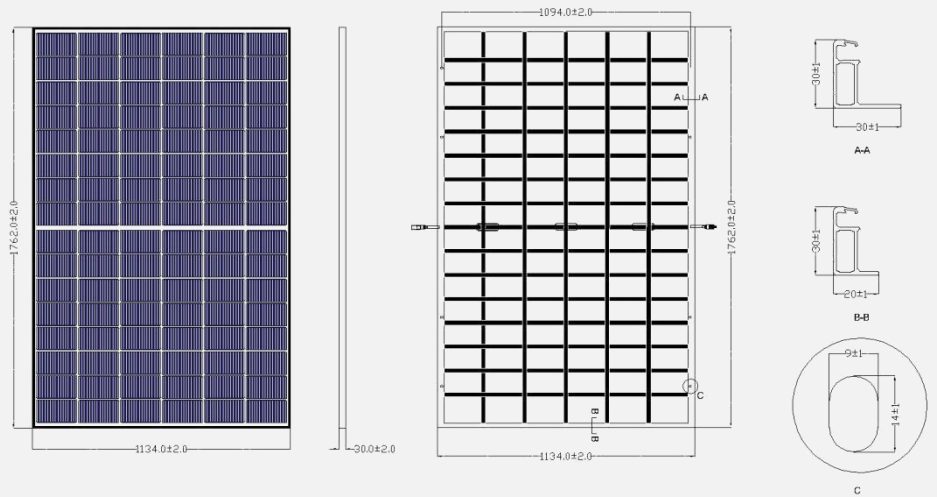
- ISO9001:2015QMS
- ISO14001:2015EMS
- ISO45001:2018OHSMS
- IEC/EN 61215, IEC/EN 61730 Standard



YQMono I 435W-455W BIFACIAL

MECHANICAL CHARACTERISTICS

Solar Cells	N-type Mono
NO.of Cells	96(6×16)-(182mm×105mm)
Dimensions	1762×1134×30mm
Weight	24 kg
Front Glass	2.0mm coated semi tempered
Back Glass	2.0mm semi-tempered
Junction Box	Ip68 rated(3 by pass diodes)
	4.0 mm ²
Output Cables	300 mm
	Length can be customized
Connectors	Mc4 compatible
Mechanical load	5400Pa



ELECTRICAL PARAMETERS

POWER CLASS	YQPL-435ND	YQPL-440ND	YQPL-445ND	YQPL-450ND	YQPL-455ND
	STC	STC	STC	STC	STC
Maximum power (Pmax)	435W	440W	445W	450W	455W
Open Circuit Voltage (Voc)	34.49V	34.74V	34.97V	35.21V	35.45V
Short Circuit Current (Isc)	15.84A	15.90A	15.96A	16.02A	16.08A
Voltage at Maximum power (Vmpp)	29.43V	29.65V	29.87V	30.08V	30.29V
Current Maximum Power (Impp)	14.78A	14.84A	14.90A	14.96A	15.02A
MODULE EFFICIENCY (%)	21.77%	22.02%	22.27%	22.52%	22.77%

STC:Irradiance 1000W/m²,cell temperature 25°C,AM 1.5G NOCT:Irradiance 800W/m²,ambient temperature 20°C,wind speed 1m/s,AM 1.5G

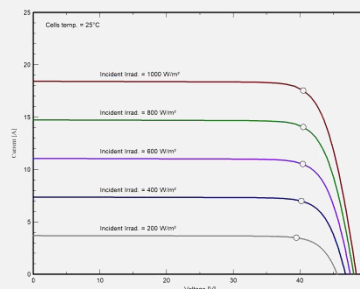
BIFACIAL OUTPUT-REARSIDE POWER GAIN

		435W	440W	445W	450W	455W
5%	Maximum power (Pmax)	457W	462W	467W	473W	478W
	Module Efficiency STC (%)	22.86%	23.12%	23.38%	23.65%	23.91%
15%	Maximum power (Pmax)	500W	506W	512W	518W	523W
	Module Efficiency STC (%)	25.04%	25.32%	25.61%	25.90%	26.19%
25%	Maximum power (Pmax)	544W	550W	556W	563W	569W
	Module Efficiency STC (%)	27.21%	27.53%	27.84%	28.15%	28.46%

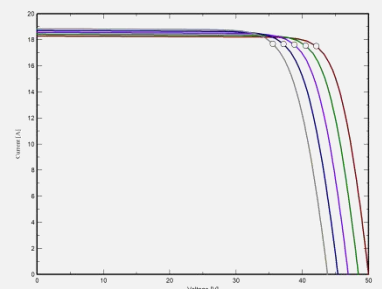
PACKING CONFIGURATION

Container	40' HQ
Pieces per pallet	36
Pallets/container	26
Piece/ container	936
Dimension/Pallet	1180×1130 mm
Gross/pallet	895Kg

I-V CURVE



I-V CURVE



OPERATING TEMPERATURE CHARACTERISTICS

Operating	Module	-40°C to +85°C	Nominal	Operating	Temperature	45±2°C
Maximum System Voltage	1500 DC (IEC)		Temperature Coefficient of Pmax			-0.29%/°C
Maximum Series Fuse Rating	30A		Temperature Coefficient of Voc			-0.25%/°C
Power Tolerance	0/+5W		Temperature Coefficient of Isc			+0.045%/°C