

Monocrystalline Solar Module

420W-460W Mono

166MM Cell 144 Half-cell Layout

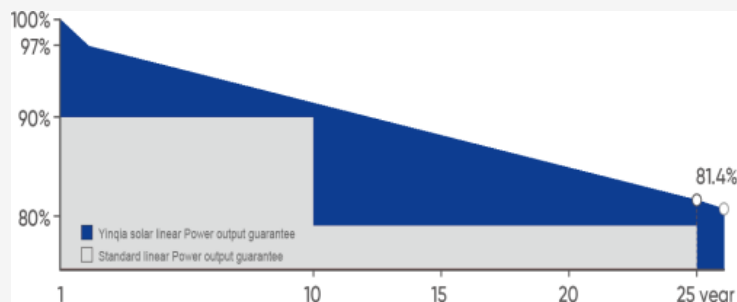
黄山银洽新能源 YinQia SOLAR

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 multiplayer 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



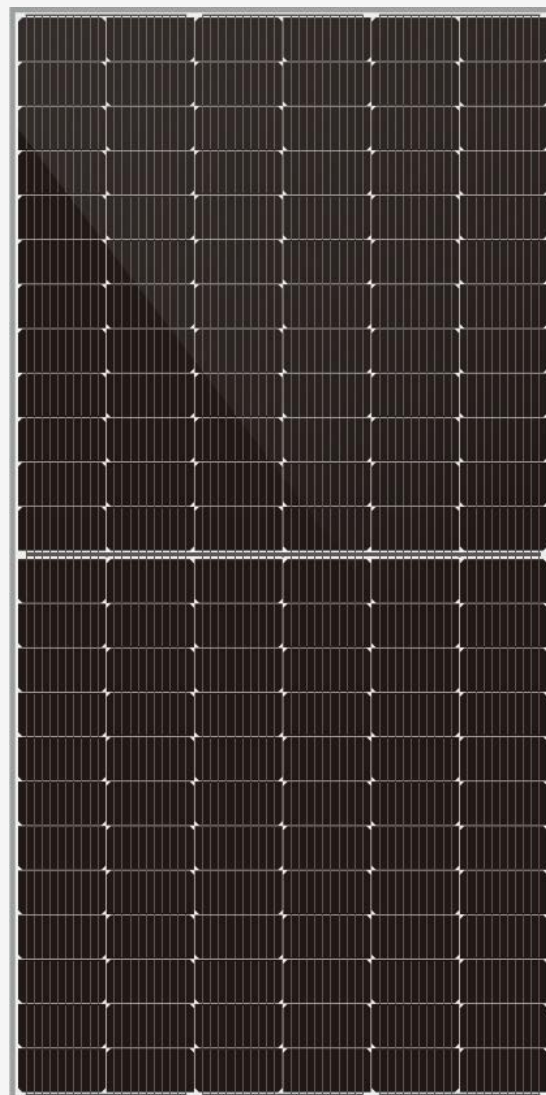
Linear performance Warranty

12
YEARS

Quality
Warranty

25
YEARS

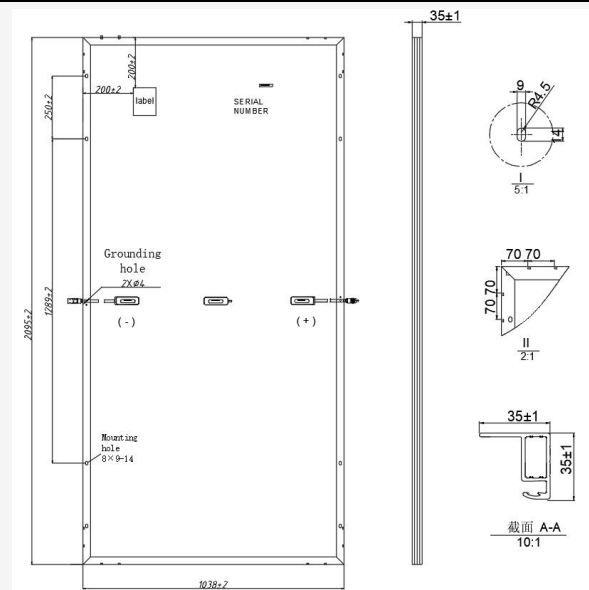
Power
Warranty



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

MECHANICAL CHARACTERISTICS

Solar Cells	Mono
NO.of Cells	144(6×24)
Dimensions	2095×1038×35mm
Weight	25kgs
Front Glass	3.2mm coated tempered glass
Frame	Anodized aluminium alloy
Junction Box	Ip68 rated(3 by pass diodes)
Output Cables	4.0mm ²
	300mm
	Length can be customized
Connectors	Mc4 compatible
Mechanical load test	5400Pa



ELECTRICAL PARAMETERS

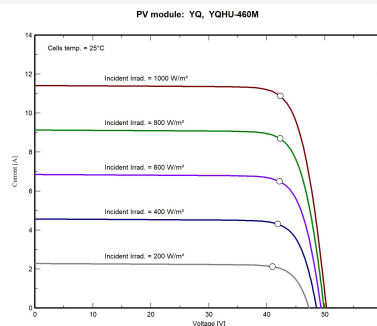
POWER CLASS	YQHU-420M		YQHU-430M		YQHU-440M		YQHU-450M		YQHU-460M	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power (Pmax)	420W	315W	430W	323W	440W	330W	450W	338W	460W	345W
Open Circuit Voltage (Voc)	48.11V	45.4V	48.69V	46.2V	49.25V	46.97V	49.83V	47.77V	50.25V	48.41V
Short Circuit Current (Isc)	11.15A	9.13A	11.22A	9.18A	11.28A	9.24A	11.34A	9.3A	11.41A	9.38A
Voltage at Maximum power (Vmpp)	40.01V	37.21V	40.72V	37.87V	41.4V	38.5V	42.1V	39.15V	42.67V	39.68V
Current Maximum Power (Impp)	10.5A	8.4~A	10.56A	8.52A	10.63A	8.57A	10.69A	8.62A	10.78A	8.69A
MODULE EFFICIENCY (%)	19.3		19.8		20.2		20.7		21.2	

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

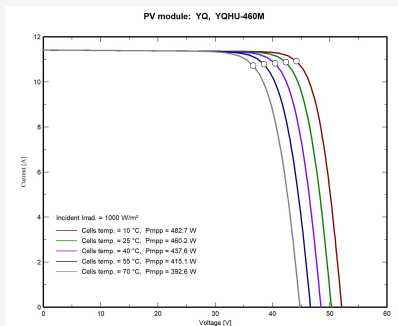
PACKING CONFIGURATION

Container	20'GP	40'HQ
Pieces per pallet	31	31+31
Pallets per container	10	10
Pieces per container	310	620
Dimension/Pallet	1100×1138 mm	2155×1138 mm
Gross weight/pallet	797Kg	1594Kg

I-VCURVE



YQHU-460M/I-V



OPERATING CHARACTERISTICS

Operating Module Temperature	-40°C to +85°C	Nominal Operating Temperature (NOCT)	45±2°C
Maximum System Voltage	1500 DC (IEC)	Temperature Coefficient of Pmax	-0.36%°C
Maximum Series Fuse Rating	20A	Temperature Coefficient of Voc	-0.28%°C
Power Tolerance	0/+5W	Temperature Coefficient of Isc	+0.05%°C

TEMPERATURE CHARACTERISTICS

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.