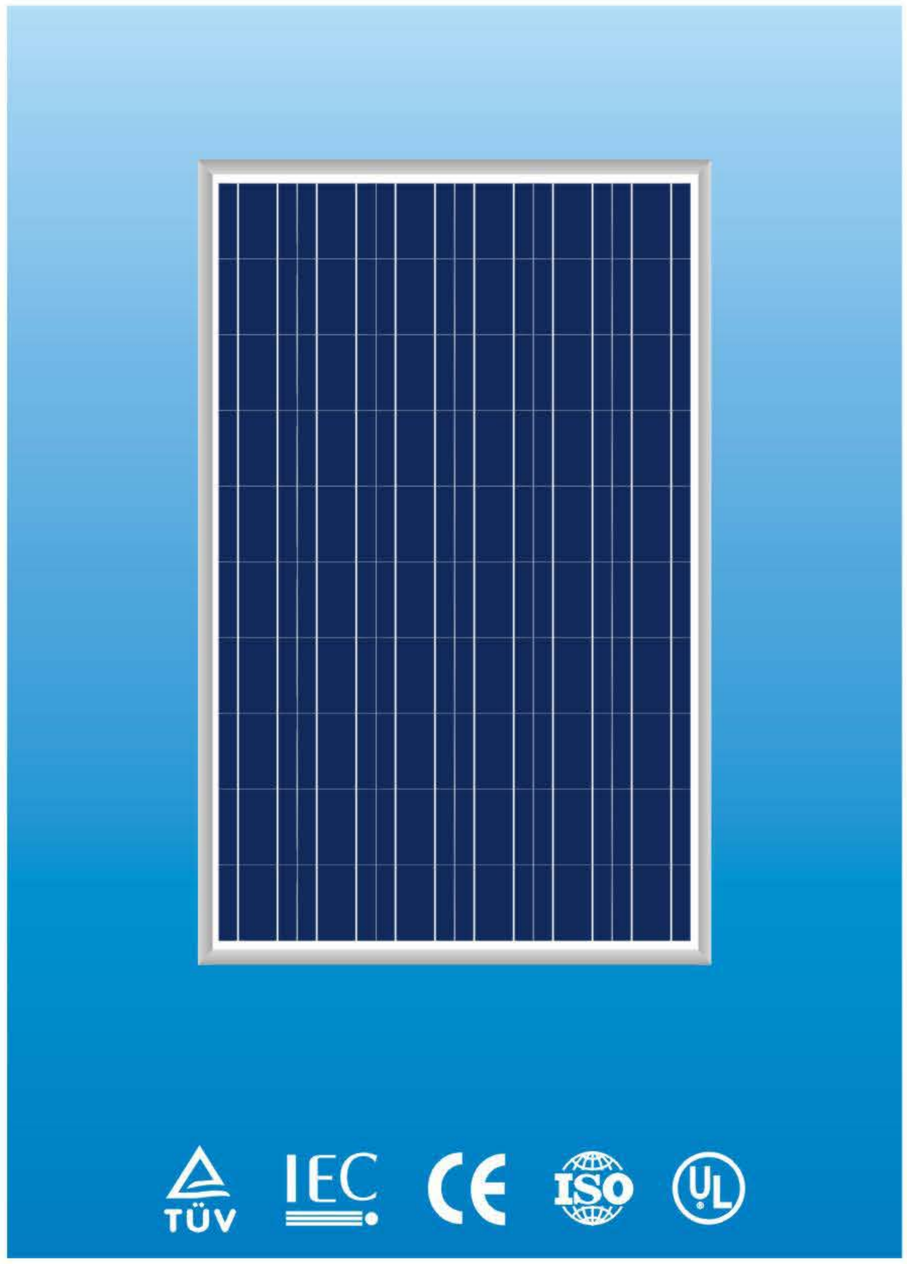
CSG*M2-30/1640x992series**
(***=200, 205,210,215,220,225, 230)

230Watt Maximum Power MULTI-CRYSTALLINE SOLAR MODULE

Features

- High conversion efficiency based on leading innovative photovoltaic technologies
- High reliability with guaranteed -3% to +5% power output tolerance, ensuring return on investment
- Attractive appearance
- Withstands high wind-pressure and snow load, and extreme temperature variations
- Easy to install

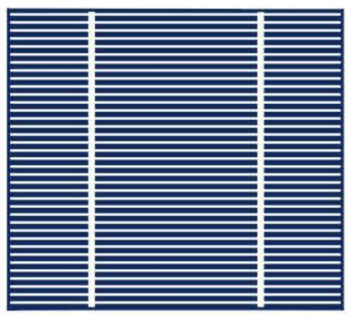


Quality and Safety

- 25-year power output transferable warranty
- Rigorous quality control meeting the highest international standards
- ISO 9001:2000 (Quality Management System) certified factories manufacturing world class products
- IEC61215, Safety class II, conformity to CE
- IEC61730
- UL1703

Recommended Applications

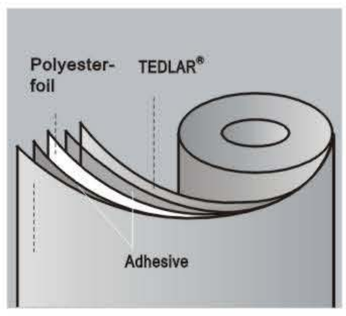
- Residential roof top systems
- On-grid utility systems
- On-grid commercial systems
- Off-grid PV systems.
- Others



CSG's technology yield improvements to cells texturing, BSF structure and anti-reflective coatings to increase conversion efficiency

Unique design on drainage holes and rigid construction prevents frame from deforming or breaking due to freezing weather and other forces

The module provides more field power output through an advanced CSG solar glass, which transparence can reach 92%



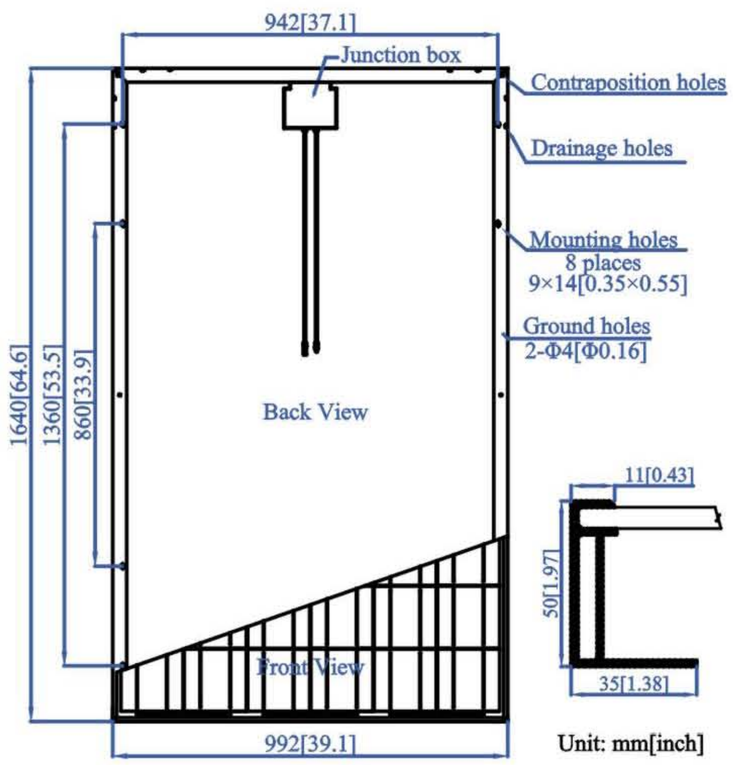
The improved gloss of the Tedlar surface effects a especially reflection to the solar radiation to increase conversion efficiency and resist weather and moisture

CSG*M2-30/1640x992series**
(***=200, 205,210,215,220,225, 230)

Electrical Characteristics

Characteristics	CSG***M2-30/1640×992						
Maximum power (Pmax)	200Wp	205Wp	210Wp	215Wp	220Wp	225Wp	230Wp
Voltage at Pmax (Vmp)	29.2V	29.5V	29.7V	29.9V	30.0V	30.1V	30.3V
Current at Pmax (Imp)	6.85A	6.95A	7.07A	7.19A	7.33A	7.48A	7.60A
Open-Circuit Voltage (Voc)	35.7V	35.9V	36.1V	36.4V	36.6V	36.8V	37.0V
Short-Circuit Current (Isc)	7.60A	7.68A	7.77A	7.86A	7.98A	8.10A	8.20A
Maximum Systerm Voltage	IEC, UL 1000V DC, 600V						
Maximum Series Fuse Rating	11A						
NOCT	45±2%/℃						
Power Tolerance	-3% to +5%						

Module Diagrame

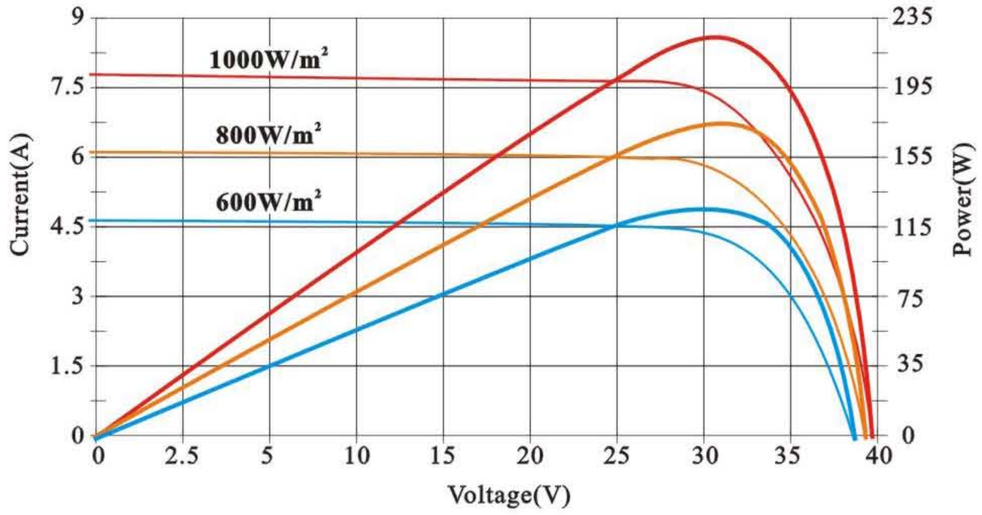


Mechanical Characteristics

Solar Cell	Multi-crystalline 156×156mm
No. of Cells	60（6×10）
Dimensions	1640×992×50mm
Weight	20.0Kg
Construction	Front side: High transmission 3.2mm tempered glass; Back side: Tedlar, white Encapsulation: EVA
Junction Box	IP 65 Rated
Output-Cables	NANYANG 4.0mm², lengths (±) 900mm, Quick connectors IP 65 rated
Frame	Clear anodized aluminum alloy type 6063T6 frame; Color: silver

Characteristics

Module IV Graph 230W



Qualification Test Parameters

Temperature	-40℃ to +85℃
Max load	50psf (2400 pascals)
Hailstone impact	25mm(1inch)at 23m/s(52mph)

Temperature Coefficients

Temperature Coefficient of Pmax	-0.48%/℃
Temperature Coefficient of Voc	-0.34%/℃
Temperature Coefficient of Isc	0.017%/℃

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT