



TENKA[®]
solar **GROUP GmbH**

**PERC 290-305 Watt
MONO CRYSTALLINE MODULE
5 Busbar Solar Cell**

KEY FEATURES



Our solar cells offer high conversion efficiency to ensure the highest quality

Our high performing modules

The modules can withstand high wind-pressure, snow loads and extreme temperatures

Passed IEC 5400 Pa mechanical loading test

QUALITY & SAFETY

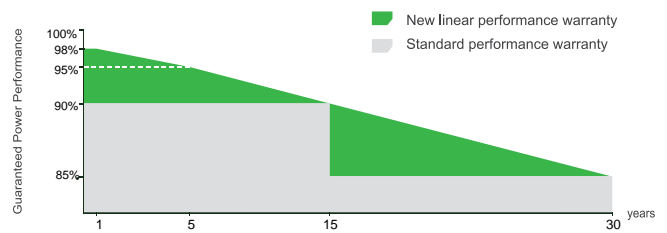
Industry leading power output warranty

(15 years/90%, 30 years/80%)

25-year warranty on materials & workmanship

Fire Rating: Class 1

Premium Performance Warranty



* Based on customer requirements and contract terms

ISO9001:2008, ISO14001:2004, OHSAS18001 certified factory

IEC61215, IEC61730 certified products



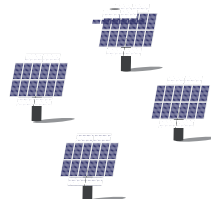
APPLICATIONS



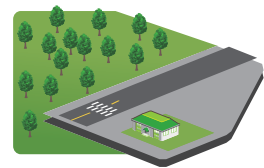
On-grid residential roof-tops



On-grid commercial/ industrial roof-tops

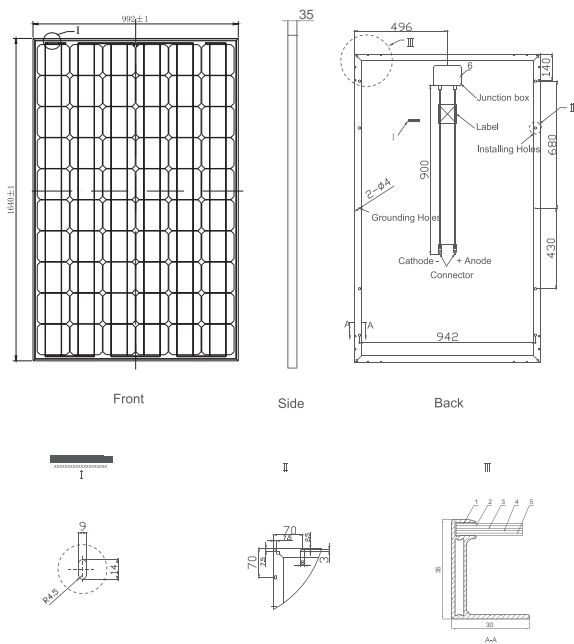


Solar power plants



Off-grid systems

Engineering Drawings



Packaging Configuration

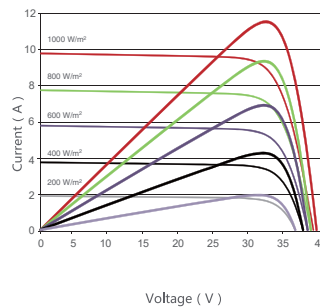
(Two boxes=One pallet)

30pcs/box, 62pcs/pallet, 868pcs/40'HQ Container

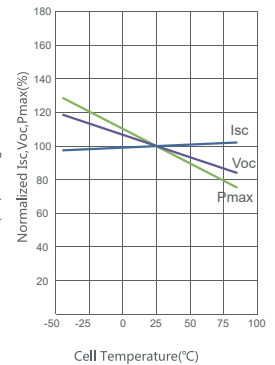
30pcs/box, 60pcs/pallet, 390pcs/20'FT Container

Electrical Performance & Temperature Dependence

Current-Voltage & Power-Voltage Curves (290W)



Temperature Dependence of Isc, Voc, Pmax



Mechanical Characteristics

Cell Type	Perc Mono-crystalline 6 inch
No. of cells	60 (6×10)
Dimensions	1640×992×35mm (64.97×39.06×1.37 inch)
Weight	18.0kg (38.6 lbs.)
Front Glass	Orion Technology, Low Iron, AR Coating Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP65 Rated
Output Cables	TÜV 1×4.0mm² / UL 12AWG, Length:900mm

SPECIFICATIONS

Module Type	290W-60M	295W-60M	300W-60M	305W-60M
Maximum Power at STC(Pmax)	290Wp	295Wp	300Wp	305Wp
Maximum Power Voltage (Vmp)	32.2V	32.4V	32.6V	32.8V
Maximum Power Current (Imp)	9.02A	9.11A	9.22A	9.31A
Open-circuit Voltage (Voc)	39.6V	39.9V	40.1V	40.4
Short-circuit Current (Isc)	9.56A	9.66A	9.77A	9.87A
Cell Efficiency(%)	20.00%	20.40%	20.80%	21.20%
Module Efficiency(%)	17.80%	18.13%	18.44%	18.75%
Operating Temperature(°C)	-40°C ~ +85°C			
Maximum system voltage	1000V DC			
Maximum series fuse rating	15A			
Power tolerance	±5%			
Temperature coefficients of Pmax	-0.43%/°C			
Temperature coefficients of Voc	-0.30%/°C			
Temperature coefficients of Isc	0.04%/°C			
Nominal operating cell temperature (NOCT)	45±2°C			

STC: ☀ Irradiance 1000W/m²



Module Temperature 25°C



AM=1.5

* Power measurement tolerance: + 5%

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