

# TENKA<sup>®</sup> solar

PHOTOVOLTAIC SYSTEMS

## MONO CRYSTALLINE MODULE 180-200 Watt

### KEY FEATURES



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

Our high performing modules have an industry low tolerance of +5% (optional)

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

Passed IEC 5400 Pa mechanical loading test

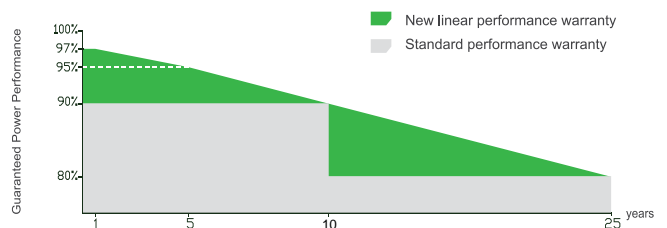
### QUALITY & SAFETY

Industry leading power output warranty

(10 years/90%, 25 years/80%)

10-year warranty on materials & workmanship (optional)

#### Premium Performance Warranty



\* Based on customer requirements and contract terms

ISO9001:2008, ISO14001:2004, OHSAS18001 certified factory  
IEC61215, IEC61730 certified products



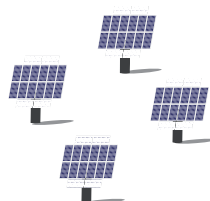
### APPLICATIONS



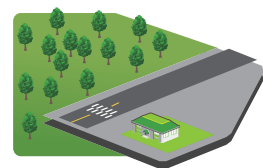
On-grid residential roof-tops



On-grid commercial/  
industrial roof-tops

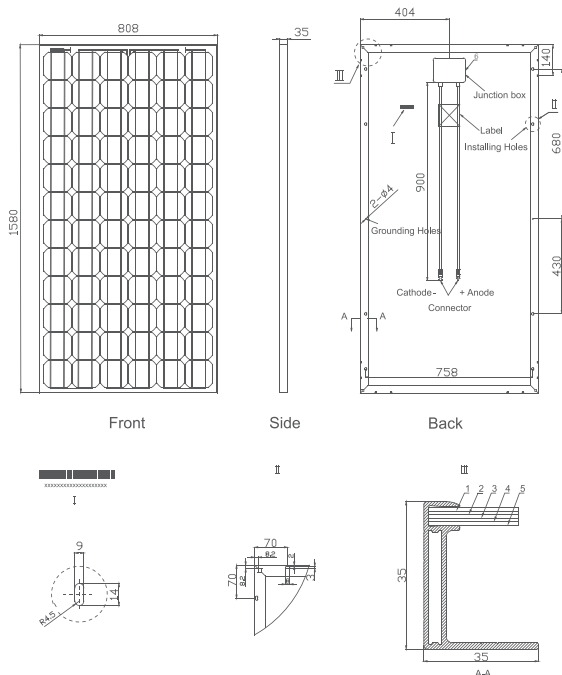


Solar power plants



Off-grid systems

## Engineering Drawings



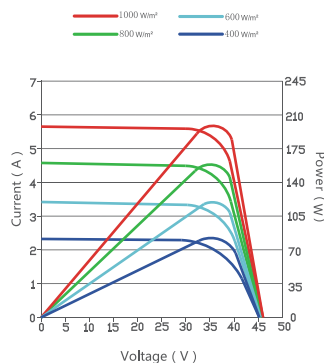
## Packaging Configuration

( Two boxes=One pallet )

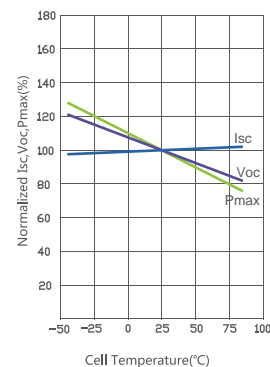
23pcs/box, 56pcs/pallet, 784pcs/40'HQ Container

## Electrical Performance & Temperature Dependence

Current-Voltage & Power-Voltage Curves (195W)



Temperature Dependence of Isc, Voc, Pmax



## Mechanical Characteristics

Cell Type	Mono-crystalline 125×125mm (5 inch)
No.of cells	72 (6×12)
Dimensions	1580×808×35mm (62.20×31.81×1.38 inch)
Weight	14.5kg (31.9 lbs.)
Front Glass	3.2mm, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP65 Rated
Output Cables	TÜV 1×4.0mm² / UL 12AWG, Length:900mm

## SPECIFICATIONS

Module Type	TKA180M-72M	TKA185W-72M	TKA190W-72M	TKA195W-72M	TKA200W-72M
Maximum Power at STC(Pmax)	180Wp	185Wp	190Wp	195Wp	200Wp
Maximum Power Voltage (Vmp)	36V	36.4V	36.6V	36.8V	36.9V
Maximum Power Current (Imp)	5A	5.09A	5.19A	5.30A	5.42A
Open-circuit Voltage (Voc)	44.8V	45V	45.2V	45.4V	45.6V
Short-circuit Current (Isc)	5.29A	5.43A	5.56A	5.67A	5.80A
Module Efficiency(%)	14.10%	14.49%	14.88%	15.28%	15.67%
Operating Temperature(°C)	-40°C~+85°C				
Maximum system voltage	1000V (IEC) DC				
Maximum series fuse rating	10A				
Power tolerance	+5% (optional)				
Temperature coefficients of Pmax	-0.43%/°C				
Temperature coefficients of Voc	-0.32%/°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%