



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%

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

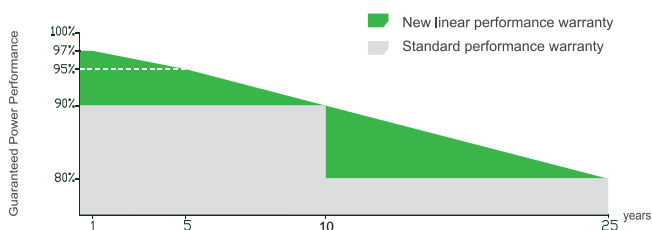
(10 years/90%, 25 years/80%)

10-year warranty on product materials and processing technology

ISO 9001:2008 (Quality Management System) certified factory

IEC61215、IEC61730 certified products

Premium Performance Warranty



* Based on customer requirements and contract terms

ISO9001:2008、ISO14001:2004、OHSAS18001 certified factory

IEC61215、IEC61730 certified products



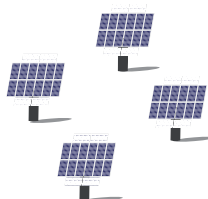
APPLICATIONS



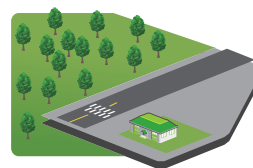
On-grid residential roof-tops



On-grid commercial/
industrial roof-tops

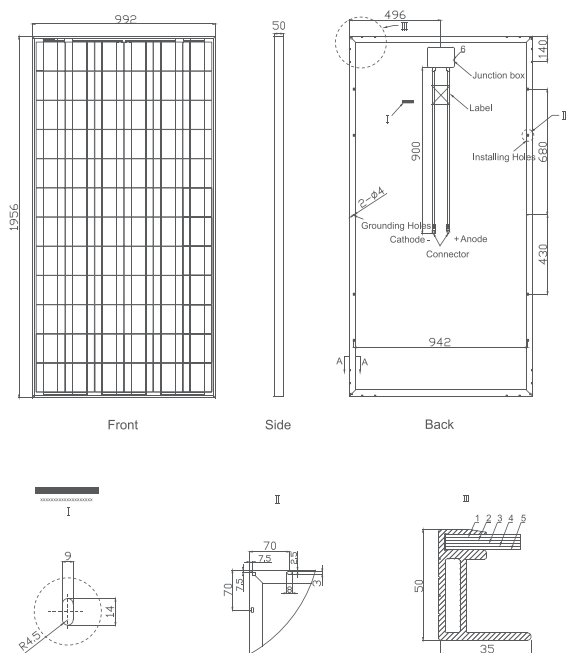


Solar power plants



Off-grid systems

Engineering Drawings

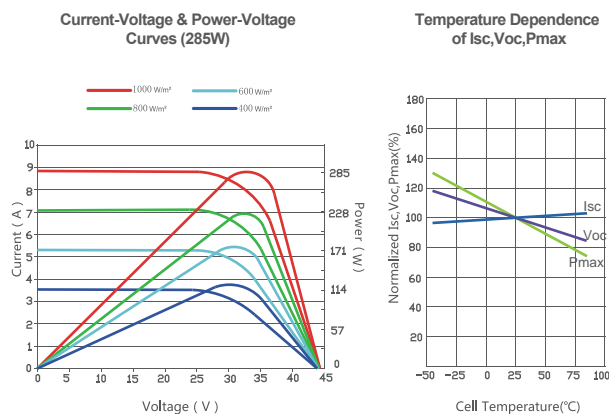


Packaging Configuration

(Two boxes = One pallet)

23pcs/box, 46pcs/pallet, 506pcs/40'HQ'Container

Electrical Performance & Temperature Dependence



Mechanical Characteristics

Cell Type	Poly-crystalline 156×156mm (6 inch)
No.of cells	72 (6×12)
Dimensions	1956×992×45mm (77.01×39.06×1.77 inch)
Weight	27.0 kg (59.5 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	TKA280W-72P	TKA285W-72P	TKA290W-72P	TKA295W-72P	TKA300W-72P	TKA305W-72P
Maximum Power at STC(P _{max})	280Wp	285Wp	290Wp	295Wp	300Wp	305Wp
Maximum Power Voltage (V _{mp})	36.0V	36.0V	36.0V	36.2V	36.6V	36.8V
Maximum Power Current (I _{mp})	7.78A	7.92A	8.06A	8.15A	8.20A	8.30A
Open-circuit Voltage (V _{oc})	44.4V	44.6V	44.6V	45.1V	45.3V	45.6V
Short-circuit Current (I _{sc})	8.40A	8.55A	8.61A	8.76A	8.84A	8.91A
Module Efficiency(%)	14.43%	14.69%	14.95%	15.20%	15.46%	15.72%
Operating Temperature(°C)	-40°C ~ +85°C					
Maximum system voltage	1000V (IEC) DC					
Maximum series fuse rating	15A					
Power tolerance	+5% (optional)					
Temperature coefficients of P _{max}	-0.45%/°C					
Temperature coefficients of V _{oc}	-0.27%/°C					
Temperature coefficients of I _{sc}	0.05%/°C					
Nominal operating cell temperature (NOCT)	45±2°C					

STC: Irradiance 1000W/m²



Module Temperature 25°C



AM=1.5

* Power measurement tolerance: +5%