

TENKA[®]
solar **GROUP GmbH**

HALF CUT MODULE 480-500 Watt

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
PID Resistance Available

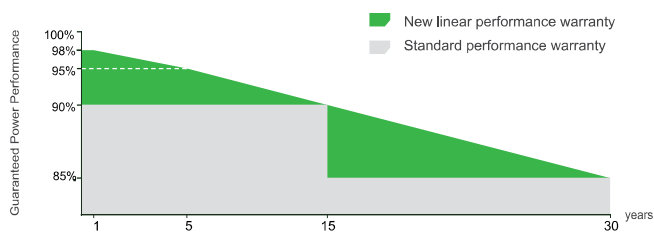
QUALITY & SAFETY

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



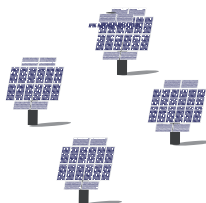
APPLICATIONS



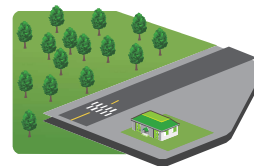
On-grid residential roof-tops



On-grid commercial/
industrial roof-tops

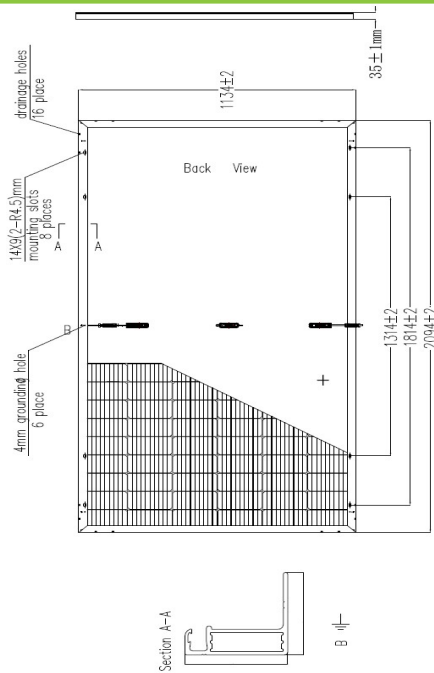


Solar power plants



Off-grid systems

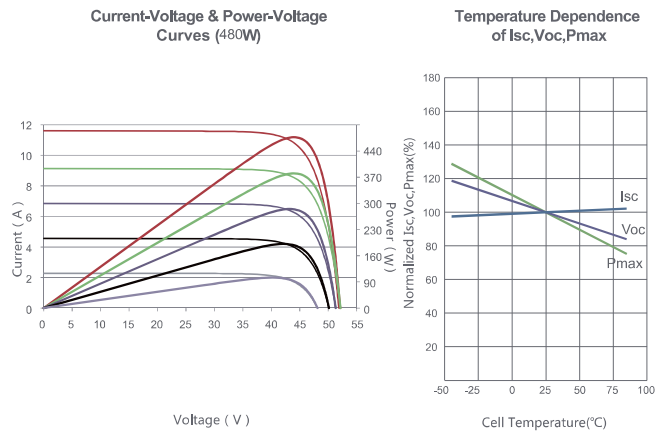
Engineering Drawings



Packaging Configuration

Standard packaging	30pcs/pallet
Module quantity per 20' container	300pcs/20GP
Module quantity per 40' container	690pcs/40HQ

Electrical Performance & Temperature Dependence



Mechanical Characteristics

Cell Type	Mono-crystalline Perc (182*91mm)
No. of cells	132 (6*22)
Dimensions	2094×1134×35mm
Weight	26.0kg
Front Glass	Orion Technology, Low Iron, AR Coating Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	T V 1×4.0mm / UL 12A - WG, Length:400mm/1100mm

SPECIFICATIONS

Module Type	TKA480M-132	TKA485M-132	TKA490M-132	TKA495M-132	TKA500M-132
Maximum Power at STC(Pmax)	480Wp	485Wp	490Wp	495Wp	500Wp
Maximum Power Voltage (Vmp)	37.90V	38.00V	38.10V	38.20V	38.30V
Maximum Power Current (Imp)	12.66A	12.76A	12.86A	12.96A	13.05A
Open-circuit Voltage (Voc)	45.30V	45.40V	45.60V	45.70V	45.80V
Short-circuit Current (Isc)	13.41A	13.53A	13.54A	13.64A	13.74A
Module Efficiency(%)	20.21%	20.42%	20.64%	20.85%	21.06%
Operating Temperature(°C)	-40°C~+85°C				
Maximum system voltage	1500V DC				
Maximum series fuse rating	20A				
Power tolerance	±5%				
Temperature coefficients of Pmax	-0.35%/°C				
Temperature coefficients of Voc	-0.28%/°C				
Temperature coefficients of Isc	-0.048%/°C				
Nominal operating cell temperature (NOCT)	-5±2°C				

STC: Irradiance 1000W/m² Module Temperature 25°C AM=1.5

* Power measurement tolerance: + 5%

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The company reserves the final right for explanation on any of the information presented hereby.