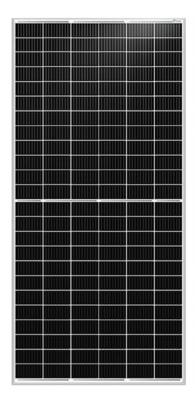
Introduction

KMS450M-144 Photovoltaic Solar Panels are certified for the most challenging environmental conditions. This KMS450M-144. Photovoltaic high-power monocrystalline solar panel operates at 20.70% efficiency to maximize the light absorption area.

Product Options





Mono Solar Panel Features



Widely using of the most popular and mature type of modules for solar system



High power output and highest conversion efficiency of 20.70%



Anti-reflective and anti-soiling surface reduces power loss from dirt and dust



Outstanding Performance in low-light irradiance environments



Excellent mechanical load resistance: Certified to withstand high wind loads (2400Pa) and Snow loads (5400Pa)



Positive power tolerance: 0~+5W







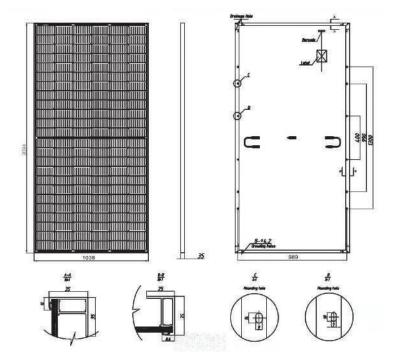








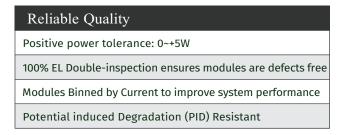


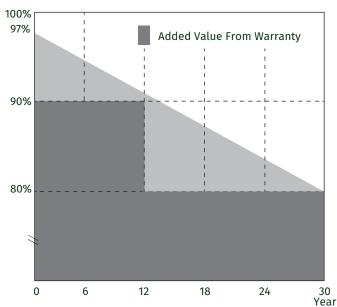


Electrical Characteristics(STC)		
Module Type	KMS450M-144	
Maximum Power (Pmax)	450W	
Maximum Power Voltage (Vmp)	41V	
Maximum Power Current (Imp)	10.98	
Open-circuit Voltage (Voc)	49.50	
Short-circuit Current (Isc)	11.42	
Module Efficiency (%)	20.70	
Power Tolerance	0~+5W	
Temperature Coeffcient of Isc	+0.05%/ºC	
Temperature Coeffcient of Voc	-0.29%/ º C	
Temperature Coeffcient of Pmax	-0.37%/ºC	

Product Features

Warranty	
12 years for product defects in materials & workmanship	
12 years for 90% of warranted minimum power output	
30 years for 80% of warranted minimum power output	
30 years liner warranty	

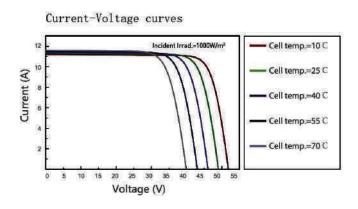


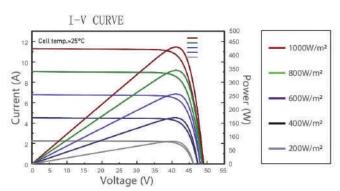


Mechanical Parameters	
Cell(mm)	9BB Mono 166*83
Weight(kg)	24.5kg
Glass Thickness	3.2mm,Low Iron Tempered Glass
Dimensions (L*W*H)(mm)	2094*1038*35mm
Cable Cross Section Size (mm²)	4
Cable Cross Section Length (mm)	300
No.of Cells and Connections	144(6*24)
Junction Box	IP67/68,3 Diodes
Connector	MC4 Compatiple

Working Conditions	
Maximum System Voltage	DC 1500V
Operating Temperature	-40°C~ +85°C
Maximum Series Fuse	20A
Maximum Static Load,Front (e.g.,snow and wind)	5400Pa (112 lb/ft²)
Maximum Static Load,Back (e.g.,wind)	2400Pa (50 lb/ft²)
NOCT	44±2°C
Positive power tolerance	$0\sim +5W$
Application Class	Class A

I-V Curve







Product Features

GLASS

- Antireflective glass
- •Translucency of normal luminance is increased by 2%
- •Module efficiency is increased by 2%
- ·Self-cleaning option
- •Service life as long as 25 years (30 years optional)

SOLAR CELL

- ·High efficiency PV cells
- Appearance consistency
- •Color sorting ensure consistent appearance on each module
- •Anti-PID



FRAME

- Conventinal frame
- ·Boost bearing capability and prolong service life
- •Serrated-clip design tensile strength
- ·Seal-lip design glue injection



JUNCTION BOX

- •Conventional standalone edition and engineering custom edition
- •Quality diode ensures module running safety
- •IP67 protection level
- ·Heat dissipation
- Long service life



More Information

All with A Grade for on-grid & off-grid use for residential and public rooftop and ground mounting Solar panels are a clean source of energy that use the sun's rays to convert them into electricity or heat.

Our clean energy solutions provide electrical power as a way to decarbonize and transition to clean energy in our mission to combat climate change.

