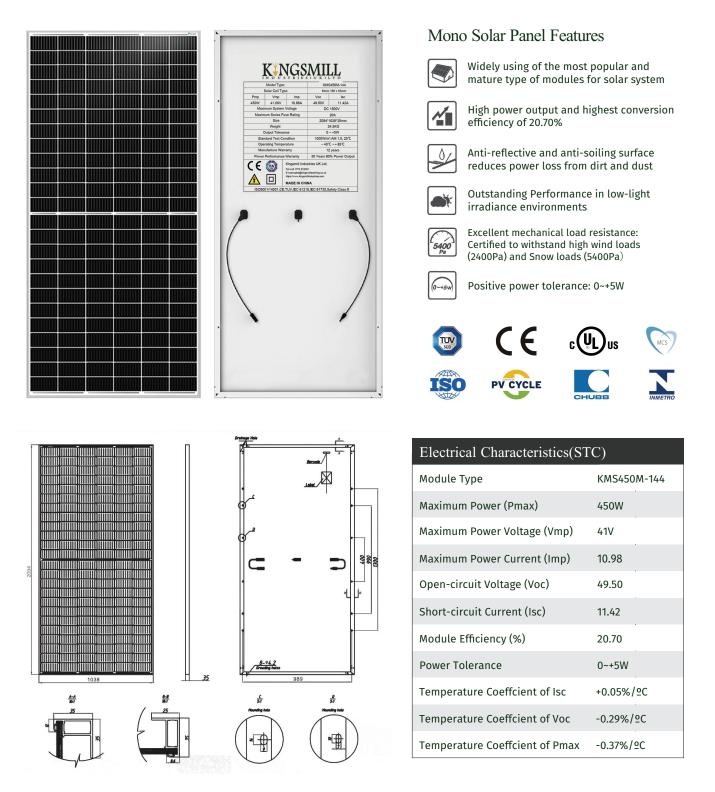
### Introduction

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**





## **SOLAR PANELS**

### **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

### Reliable Quality

Positive power tolerance: 0~+5W

100% EL Double-inspection ensures modules are defects free

Modules Binned by Current to improve system performance

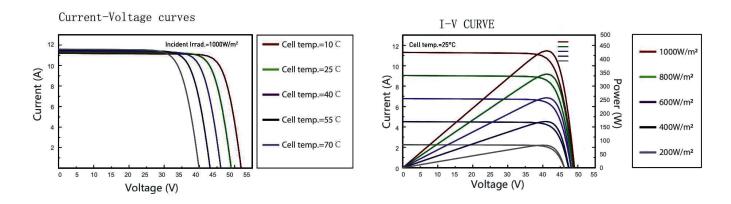
Potential induced Degradation (PID) Resistant

100% <sub>[</sub>						
97%			Added	Value From	Warranty	
90%		i				
80%					-	
(	D	6	12	18	24	30 Year

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 (mm <sup>2</sup> )	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/ft <sup>2</sup> )
Maximum Static Load,Back (e.g.,wind)	2400Pa (50 lb/ft <sup>2</sup> )
NOCT	44±2°C
Positive power tolerance	$0 \sim +5W$
Application Class	Class A

### I-V Curve





# **SOLAR PANELS**

### **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.

