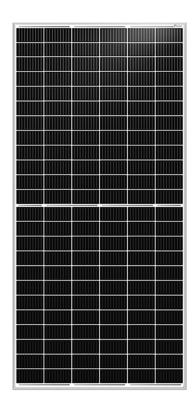
Introduction

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







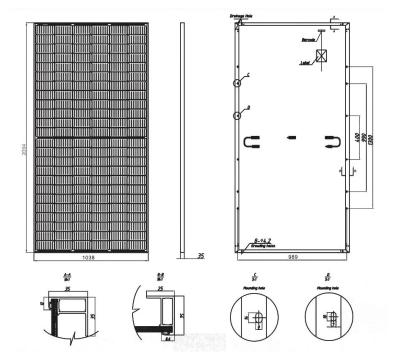






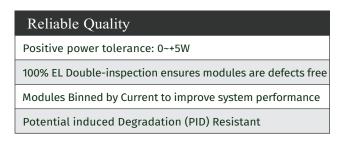


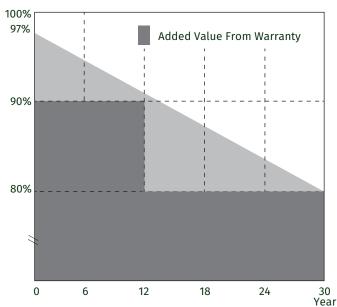




Electrical Characteristics(STC)	
Module Type	KMS450M-144
Maximum Power (Pmax)	450W
Maximum Power Voltage (Vmp)	41V
Maximum Power Current (Imp)	10.98
Open-circuit Voltage (Voc)	49.50
Short-circuit Current (Isc)	11.42
Module Efficiency (%)	20.70
Power Tolerance	0~+5W
Temperature Coeffcient of Isc	+0.05%/ºC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

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

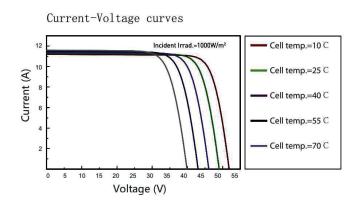


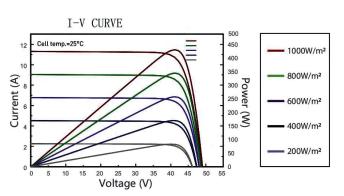


Mechanical Parameters	
Cell(mm)	9BB Mono 166*83
Weight(kg)	24.5kg
Glass Thickness	3.2mm,Low Iron Tempered Glass
Dimensions (L*W*H)(mm)	2094*1038*35mm
Cable Cross Section Size (mm²)	4
Cable Cross Section Length (mm)	300
No.of Cells and Connections	144(6*24)
Junction Box	IP67/68,3 Diodes
Connector	MC4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







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.

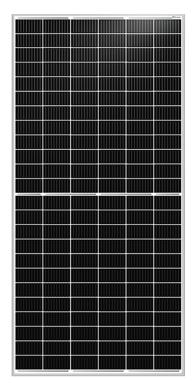
Our clean energy solutions provide electrical power as a way to decarbonize and transition to clean energy in our mission to combat climate change.



Introduction

KMS560M-144 Photovoltaic Solar Panels are certified for the most challenging environmental conditions. This KMS560M-144. Photovoltaic high-power monocrystalline solar panel operates at 21.90% 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 21.90%



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







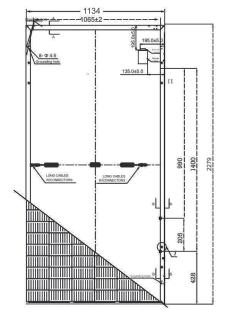


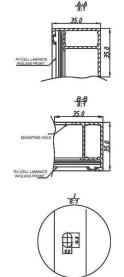






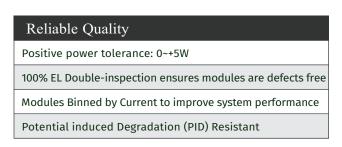


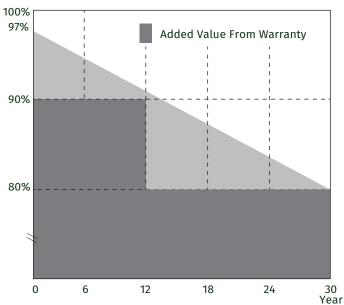




Electrical Characteristics(STC)	
Module Type	KMS560M-144
Maximum Power (Pmax)	560W
Maximum Power Voltage (Vmp)	42.00
Maximum Power Current (Imp)	13.35
Open-circuit Voltage (Voc)	50.20
Short-circuit Current (Isc)	14.11
Module Efficiency (%)	21.90%
Power Tolerance	0~+5W
Temperature Coeffcient of Isc	+0.043%/ºC
Temperature Coeffcient of Voc	-0.26%/ º C
Temperature Coeffcient of Pmax	-0.36%/ºC

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	

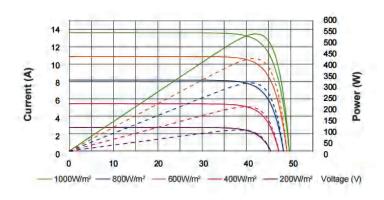


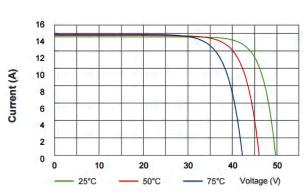


Mechanical Parameters	
Cell(mm)	Mono 182*182mm
Weight(kg)	29kg
Glass Thickness	3.2mm,AR Coating Tempered Glass
Dimensions (L*W*H)(mm)	2279*1134*35mm
Cable Cross Section Size (mm²)	4
Cable Cross Section Length (mm)	300
No.of Cells and Connections	144(6*24)
Junction Box	IP67, with Bypass Diodes
Connector	MC4 Compatiple

Working Conditions	
Maximum System Voltage	DC 1000V/1500V(IEC)
Operating Temperature	-40°C~ +85°C
Maximum Series Fuse	25A
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	45±2°C
Positive power tolerance	$0\sim +5W$
Application Class	Class A

I-V Curve





GLASS

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



SOLAR CELL

- Uniform color
- •High PID resistant
- ·Low breakage rate
- High stunt-resistance
- •High model efficiency up to 20%



FRAME

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



JUNCTION BOX

- ·Heat dissipation
- ·Long service life
- >IP67 protection level
- Innovative Full-Glue-Filled
- •Waterproofness Junction Box



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.

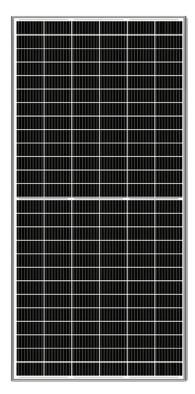
Our clean energy solutions provide electrical power as a way to decarbonize and transition to clean energy in our mission to combat climate change.



Introduction

KMS670M-132 Photovoltaic Solar Panels are certified for the most challenging environmental conditions. This KMS670M-132. Photovoltaic high-power monocrystalline solar panel operates at 21.60% 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 21.60%



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







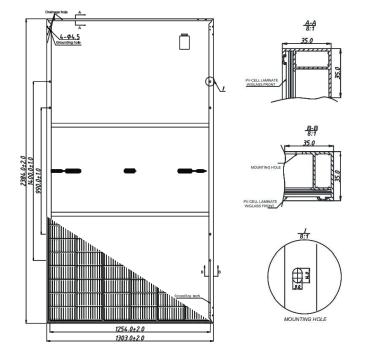






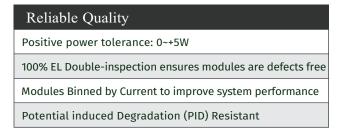


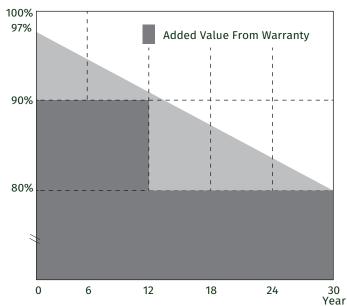




Electrical Characteristics(STC)		
Module Type	KMS670M-132	
Maximum Power (Pmax)	670W	
Maximum Power Voltage (Vmp)	38.60	
Maximum Power Current (Imp)	17.36	
Open-circuit Voltage (Voc)	46.00	
Short-circuit Current (Isc)	18.42	
Module Efficiency (%)	21.60%	
Power Tolerance	0~+5W	
Temperature Coeffcient of Isc	+0.043%/ <u>°</u> C	
Temperature Coeffcient of Voc	-0.26%/ºC	
Temperature Coeffcient of Pmax	-0.36%/ºC	

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

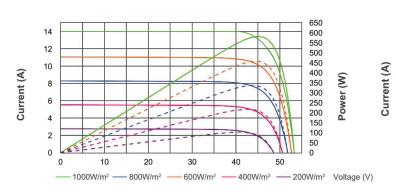


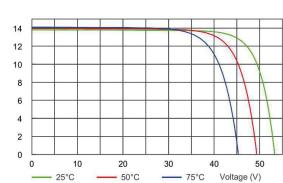


Mechanical Parameters	
Cell(mm)	Mono 210*105mm
Weight(kg)	34.5kg
Glass Thickness	3.2mm High transparency solar glass
Dimensions (L*W*H)(mm)	2384*1303*35mm
Cable Cross Section Size (mm²)	4
Cable Cross Section Length (mm)	300
No.of Cells and Connections	132(6*22)
Junction Box	IP68 Rated
Connector	MC4 Compatiple

Working Conditions	
Maximum System Voltage	DC 1000V/1500V
Operating Temperature	-40°C~ +85°C
Maximum Series Fuse	30A
Maximum Static Load,Front (e.g.,snow and w	rind) 5400Pa (112 lb/ft²)
Maximum Static Load,Back (e.g.,wind)	2400Pa (50 lb/ft²)
NOCT	45±2°C
Positive power tolerance	$0\sim +5W$
Application Class	Class A

I-V Curve

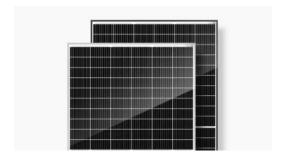






MULTI BUSBAR TECHNOLOGY

- Improves efficiency of modules
- Offers better appearance



HALF CUT TECHNOLOGY

- •Under the same shadow condition
- ·Lower power loss than full cell



FRAME

- Conventinal frame
- ·Boost bearing capability
- Prolong service life
- ·Serrated-clip design tensile strength



SPLIT JUNCTION BOX

- •Reduced internal power loss
- ·Ensures model running safety



More Information

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