

# KR-450M-144-9BB

## Solar Panel Monocrystalline 450W

### Mechanical parameters

Cell (mm)	9BB Mono 158.75 * 79.375
Weight (kg)	23 kg (aprox.)
Glass Thickness	3.2mm
Dimensions (L * W * H) (mm)	2010*1002*40
Cable Cross Sections Size (mm <sup>2</sup> )	4
Cable Cross Sections Length (mm)	1400
Number of cells and connections	144 (6*24)
Junction Box	IP68, 3 Bypass Diodes
Connector	MC4 compatible

### Working Conditions

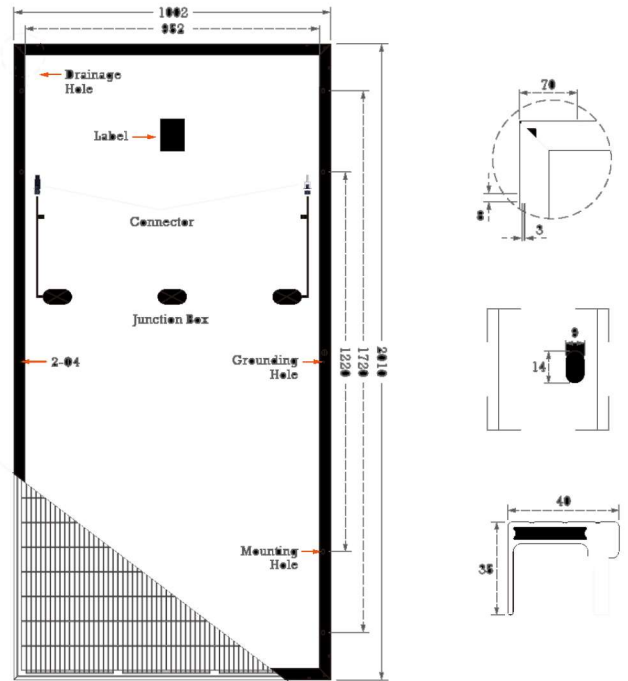
Maximum System Voltage	DC 1000V / 1500V (IEC)
Operating Temperature	-40°C~+85°C
Maximum Series Fuse	20A
Maximum Static Load Front (snow, wind)	5400Pa (112 lb/ft <sup>2</sup> )
Maximum Static Load Back (wind)	2400Pa (50 lb/ft <sup>2</sup> )
NOCT	45±2°C
Positive Power Tolerance	0~ +5W
Applications Class	Class A

### Electrical Parameters

Module	KR-450M-144-9BB
Encapsulation	Class/Eva/Cell/Eva/Backsheet
Maximum Power Pmax (W)	450
Maximum Power Voltage (Vmp/V)	42.90
Maximum Power Current (Imp/A)	10.24
Open Circuit Voltage (Voc/V)	50.60
Short Circuit Current (Isc/A)	10.85
Cell Efficiency (%)	24.80
Module Efficiency (%)	21.83
Power Tolerance (W)	0~+5W
Temperature Coefficient of Isc (αIsc)	+0.05%/°C
Temperature Coefficient of Voc (βVoc)	-0.29%/°C
Temperature Coefficient of Pmax (γPmp)	-0.37%/°C
STC	Irradiance 1000W/m <sup>2</sup> , Cell Temperature 25°C, Spectrum AM1.5

### Warranty

12 years for product defects in materials & workmanship  
25 years for 80% or warranted minimum power output



### 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

