

# KINVE SOLAR MODULE

## Monocrystalline

KV250-60M	250Wp
KV245-60M	245Wp
KV240-60M	240Wp
KV235-60M	235Wp
KV230-60M	230Wp



### Features

- Vertically integrated production including ingot, wafer, cell and module
- High module efficiency, up to 15.40%
- Positive tolerance for mainstream products, 0 ~ +5W
- Tested for 5400Pa load capacity, suitable for heavy snow areas
- Anodized aluminum frame to improve corrosion resistance
- High transparent, low iron tempered glass to improve module efficiency
- Module with Anti-reflection glass for special application e.g. highways
- Encapsulated junction box, better insulation, sealing, heat dissipation
- Special module for low light or cloudy environment



### Benefits

- 10 years product warranty for materials and workmanship  
25 years output warranty,  
12 years  $\geq 90\%$ , 25 years  $\geq 80\%$
- Worldwide Product Liability Insurance covered by Zurich Insurance
- 25 years Product Performance Insurance covered by Zurich Insurance  
covered by MunichRE
- Local technical support
- Local warehousing
- 48 hour-response service
- Enhanced design for easy installation and long term reliability
- Customized production, e.g. black module, special frame, BIPV
- Punctual and safe delivery, reliable supply to keep project schedule



IEC 61215 Ed.2  
IEC 61730



**KINVE**

## Electrical Data

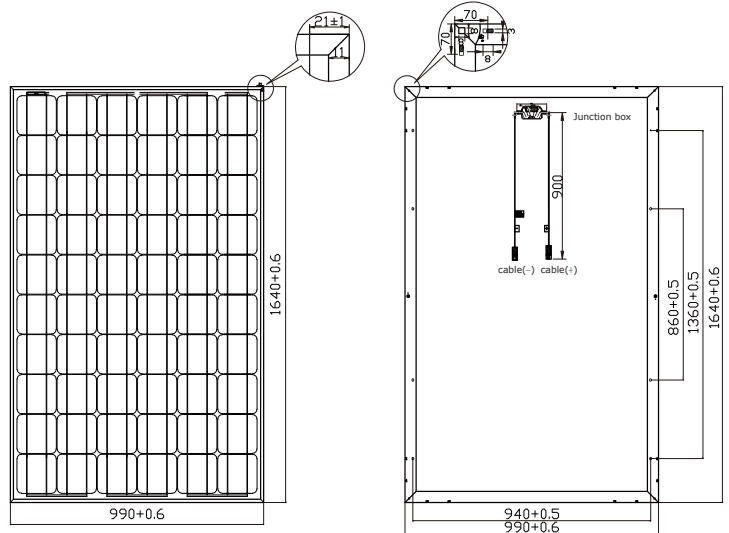
Model Type	KV250-60M	KV245-60M	KV240-60M	KV235-60M	KV230-60M
Peak Power [Pmax]	250W	245W	240W	235W	230W
Cell Efficiency	18.13%	17.77%	17.41%	17.05%	16.68%
Module Efficiency	15.40%	15.09%	14.78%	14.47%	14.17%
Maximum Power Voltage [Vmp]	30.1V	30V	29.8V	29.6V	29.5V
Maximum Power Current [Imp]	8.31A	8.17A	8.06A	7.94A	7.8A
Open Circuit Voltage [Voc]	37.3V	37.2V	37V	36.8V	36.8V
Short Circuit Current [Isc]	8.78A	8.69A	8.62A	8.54A	8.45A
Power Tolerance	±5W	0~+5W	0~+5W	0~+5W	0~+5W
Maximum System Voltage	1000V				
Normal Operating Cell Temperature	45°C ± 2°C				
Series Fuse Rating [A]	15				
Number of Bypass Diodes	3				
Voltage temperature coefficients	-0.35 %/°C				
Current temperature coefficients	0.029 %/°C				
Power temperature coefficients	-0.43 %/°C				

## Mechanical Data

Cell Type	Mono 156mm×156mm
No. of Cells	60 (6×10)
Dimensions	1640×990×45mm (L×W×H) 1640×990×50mm (L×W×H)
Weight	19.5kg(45)/ 20.5kg(50)

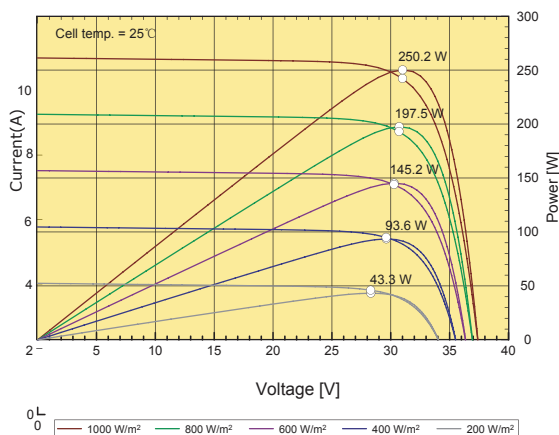
## Working Conditions

Maximum surface load capacity	tested up to 5,400 Pa according to IEC 61215 (advanced test)
Hail	maximum diameter of 25 mm with impact speed of 23 m/s
Temperature range	- 40 °C to + 85 °C

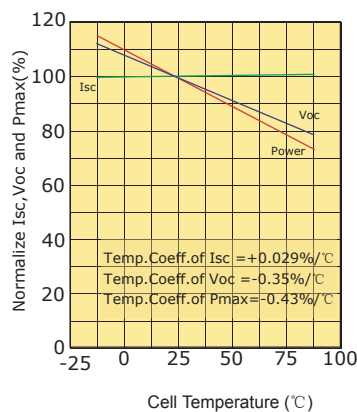


## ELECTRICAL CHARACTERISTICS

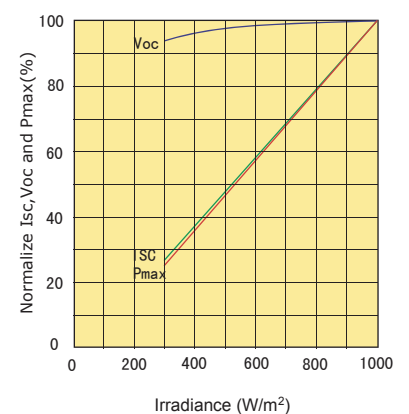
Electrical performance  
(cell temperature: 25°C)



Temperature dependence of Isc, Voc and Pmax



Irradiance dependence of Isc, Voc and Pmax (cell temperature: 25°C)



The electrical data relates to standard test conditions [STC]: 1,000 W/m<sup>2</sup>; AM 1.5; 25 °C.  
Performance deviation of Pmp: -/+ 3%, performance deviation of Voc[V], Isc[A], Vmpp [V] and Imp [A]: -/+ 10%.

\* The parameters are for reference only, and are subject to change without notice or obligation.  
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