

**KFSOLAR**  
wisdom enlighten future



## KF MODULE monocrystalline

KF-M654205W KF-M654210W KF-M654215W  
KF-M654220W KF-M654225W

- \* High transmittance, low iron tempered glass with enhanced stiffness and impact resistance.
- \* Unique frame design with high mechanical strength for easy installation.
- \* Advanced encapsulation material with multilayer sheet lamination to provide long-life and enhanced cell performance.
- \* Outstanding electrical performance under high temperature and low irradiance conditions.
- \* Carbon Friendly.

### Warranty:

5 years for product defects in materials and workmanship  
10 years for 90% of warranted minimum power  
25 years for 80% of warranted minimum power

### Certificates:



IEC: IEC 61215, IEC 61730 (1&2), conformity to CE  
ISO9001:2008 GB/T 19001-2008  
ISO9001:2008 Quality Management System  
PV Cycle: Voluntary module take back and recycling program





## ELECTRICAL CHARACTERISTICS

Type	KF-M654205W	KF-M654210W	KF-M654215W	KF-M654220W	KF-M654225W
Nominal Out	205W	210W	215W	220W	225W
Power Tolerance	(0, +5) W	(0, +5) W	(0, +5) W	(0, +5) W	(0, +5) W
Voltage at Pmax(Vmp)	26.4V	26.5V	26.7V	26.8V	27.0V
Current at Pmax(Imp)	7.78A	7.92A	8.07A	8.21A	8.35A
Open Circuit Voltage(Voc)	33.8V	34.0V	34.2V	34.4V	34.6V
Short Circuit Current(Isc)	8.09A	8.24A	8.38A	8.53A	8.67A
Maximum System Voltage	1000V(TUV) ; 600V(UL)				
Cell Efficiency	16.40%~16.80%	16.80%~17.20%	17.20%~17.60%	17.60%~18.00%	18.00%~18.40%
Module Efficiency	13.90%~14.30%	14.30%~14.60%	14.60%~15.00%	15.00%~15.30%	15.30%~15.60%

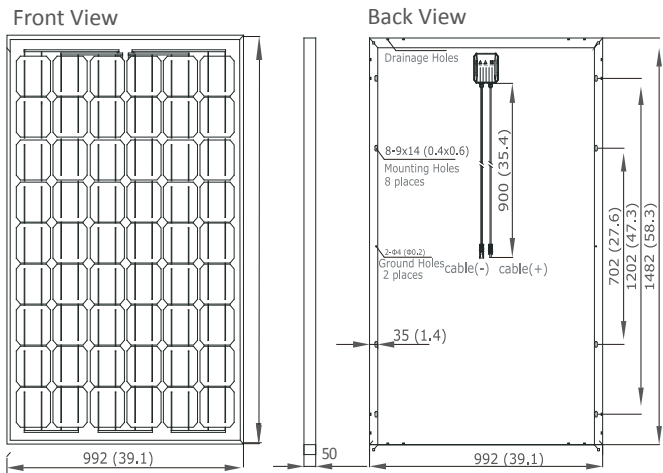
## MECHANICAL CHARACTERISTICS

Dimensions	1482X992X50mm
Weight	18.5kg
Junction Box	IP65 rated
Type of Connector	MC4 or compatible connector
Solar Cells	54(6X9) Mono-crystalline cells 156mm
Frame	Anodized aluminum alloy

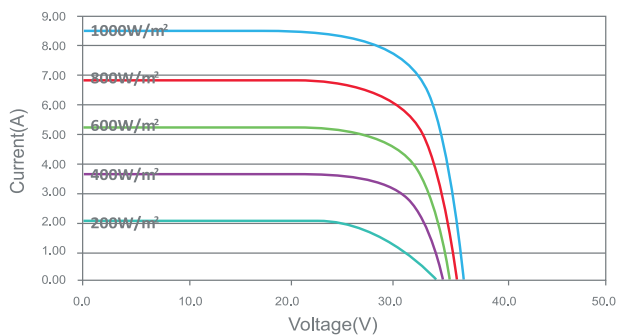
## TEMPERATURE CHARACTERISTICS

NOCT	44.4±2°C
Temperature Coefficient of Pmax	-0.46%/°C
Temperature Coefficient of Voc	-0.346%/°C
Temperature Coefficient of Isc	0.065%/°C
Operating Temperature	-40~+80°C

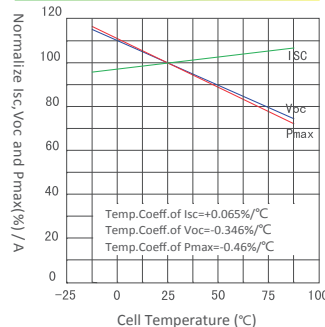
## DIMENSIONS



## IV CURVE AT DIFFERENT IRRADIANCE LEVELS



## Temperature dependence of Isc, Voc and Pmax



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

