

# WKE 205-230

## WATT POLYCRYSTALLINE MODULE



WKE-54P205 205Wp    WKE-54P210 210Wp    WKE-54P215 215Wp  
WKE-54P220 220Wp    WKE-54P225 225Wp    WKE-54P230 230Wp

### POLYCRYSTALLINE MODULE

#### Characteristics

- High module conversion efficiency up to 15.39% through superior manufacturing technology.
- Low degradation and excellent performance under high temperature and low light conditions.
- Robust aluminum frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- Positive power tolerance of 0 ~ +3 %.
- High ammonia and salt mist resistance.

#### Quality Certificates

- IEC61215, IEC61730, IEC62716, IEC61701, UL1703, CE, MCS, CEC, Israel Electric, Kemco
- ISO9001:2008: Quality management system
- ISO14001:2004: Environmental management system
- OHSAS18001:2007: Occupational health and safety management system

#### Special Warranty

- 12 year limited product warranty.
- Limited power warranty: 12 years 91.2% of the nominal power output, 30 years 80.6% of the nominal power output.
- WKE Bankability
- CHUBB Insurance



## Electrical parameters at STC

Nominal Power (Pmax)	205W	210W	215W	220W	225W	230W
Open Circuit Voltage (Voc)	32.9V	33.0V	33.1V	33.2V	33.3V	33.4V
Short Circuit Current (Isc)	8.35A	8.48A	8.59A	8.70A	8.81A	8.90A
Voltage at Nominal Power (Vmp)	27.0V	27.1V	27.2V	27.3V	27.4V	27.5V
Current at Nominal Power (Imp)	7.60A	7.75A	7.91A	8.06A	8.22A	8.37A
Module Efficiency (%)	13.72	14.06	14.39	14.73	15.06	15.39

STC: Irradiance 1000W/m<sup>2</sup>, Cell temperature 25°C, AM1.5

## Electrical parameters at NOCT

Nominal Power (Pmax)	150W	153W	157W	161W	164W	168W
Open Circuit Voltage (Voc)	30.3V	30.4V	30.5V	30.5V	30.6V	30.7V
Short Circuit Current (Isc)	6.76A	6.87A	6.96A	7.05A	7.14A	7.21A
Voltage at Nominal Power (Vmp)	24.6V	24.7V	24.8V	24.8V	24.9V	25.0V
Current at Nominal Power (Imp)	6.10A	6.20A	6.34A	6.5A	6.59A	6.72A

NOCT: Irradiance 800W/m<sup>2</sup>, Ambient temperature 20°C, Wind speed 1 m/s

## Mechanical Characteristics

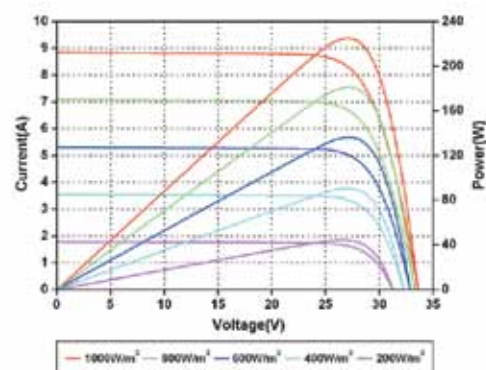
Cell type	Polycrystalline 156x156mm
Number of cells	54 (6x9)
Module dimension	1494x1000x45mm
Weight	18kg
Front cover	3.2mm low-iron tempered glass
Frame	Anodized aluminum alloy
Junction box	IP67, 6 diodes
Cable	4mm <sup>2</sup> , 900mm
Connector	MC4 or MC4 compatible
Standard packaging	22pcs/pallet
Module quantity per container	660pcs/40'HQ

## Temperature Characteristics

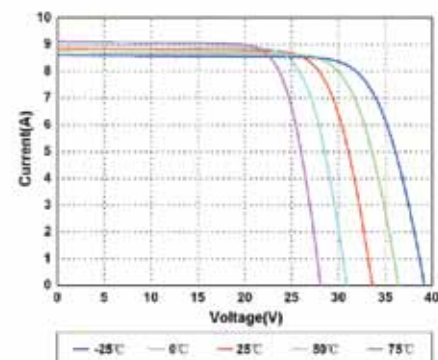
Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficients of Pmax	-0.43%/°C
Temperature Coefficients of VOC	-0.33%/°C
Temperature Coefficients of ISC	+0.056%/°C

## Maximum Ratings

Operating Temperature	-40°C to +85°C
Maximum System Voltage	1000V DC
Maximum Series Fuse Rating	15A



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures