

# WKE 280-310

## WATT POLYCRYSTALLINE MODULE



WKE-72P280 280Wp    WKE-72P285 285Wp    WKE-72P290 290Wp  
WKE-72P295 295Wp    WKE-72P300 300Wp    WKE-72P305 305Wp  
WKE-72P310 310Wp    POLYCRYSTALLINE MODULE

### Characteristics

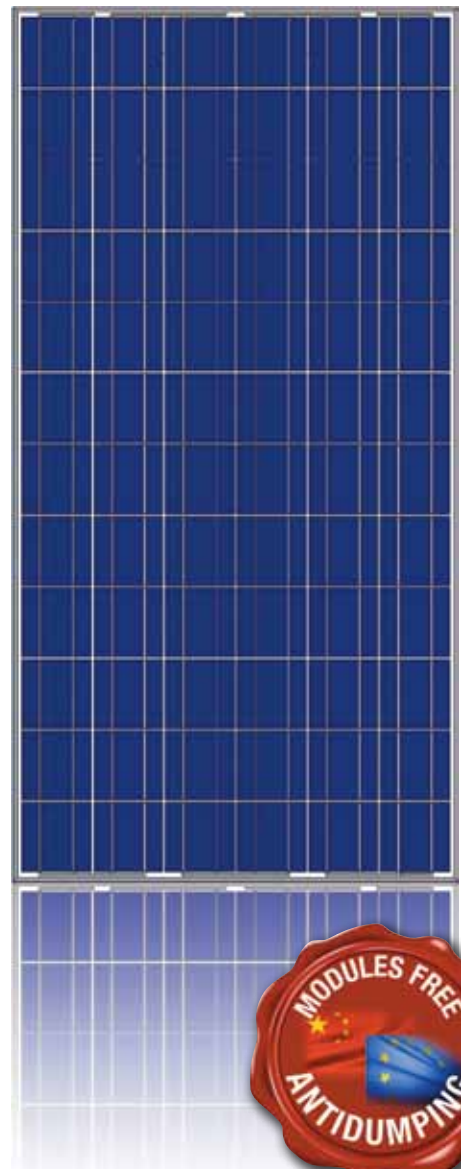
- High module conversion efficiency up to 15.98% through superior manufacturing technology.
- Low degradation and excellent performance under high temperature and low light conditions.
- Robust aluminum frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- Positive 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)	280W	285W	290W	295W	300W	305W	310W
Open Circuit Voltage (Voc)	44.3V	44.4V	44.5V	44.6V	44.7V	44.8V	44.9V
Short Circuit Current (Isc)	8.36A	8.44A	8.52A	8.60A	8.68A	8.76A	8.85A
Voltage at Nominal Power (Vmp)	36.3V	36.4V	36.5V	36.6V	36.7V	36.8V	36.9V
Current at Nominal Power (Imp)	7.72A	7.83A	7.95A	8.07A	8.19A	8.31A	8.43A
Module Efficiency (%)	14.43	14.69	14.95	15.20	15.46	15.72	15.98

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

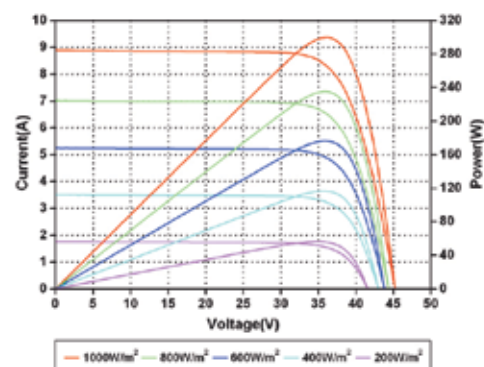
## Electrical parameters at NOCT

Nominal Power (Pmax)	204W	208W	212W	215W	219W	223W	226W
Open Circuit Voltage (Voc)	40.8V	40.8V	40.9V	41.0V	41.1V	41.2V	41.3V
Short Circuit Current (Isc)	6.77A	6.84A	6.90A	6.97A	7.03A	7.10A	7.17A
Voltage at Nominal Power (Vmp)	33.0V	33.1V	33.2V	33.3V	33.4V	33.5V	33.6V
Current at Nominal Power (Imp)	6.19A	6.29A	6.39A	6.46A	6.56A	6.66A	6.73A

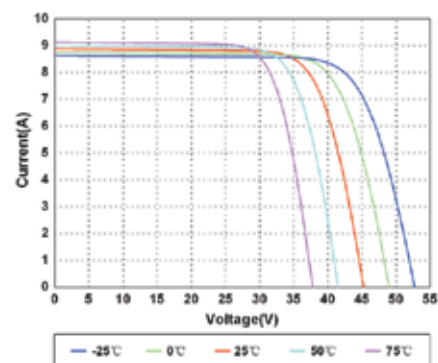
NOCT: Irradiance 800W/m<sup>2</sup>, Ambient temperature 20°C, Wind speed 1 m/s

## Mechanical Characteristics

Cell type	Polycrystalline 156x156mm
Number of cells	72 (6x12)
Module dimension	1956x992x50mm
Weight	27kg
Front cover	4.0mm low-iron tempered glass
Frame	Anodized aluminum alloy
Junction box	IP67, 6 diodes
Cable	4mm <sup>2</sup> , 1000mm
Connector	MC4 or MC4 compatible
Standard packaging	20pcs/pallet
Module quantity per container	440pcs/40'HQ



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures

## 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