

WKE 130-155

WATT MONOCRYSTALLINE MODULE



WKE-36M130 130Wp WKE-36M135 135Wp WKE-36M140 140Wp
WKE-36M145 145Wp WKE-36M150 150Wp WKE-36M155 155Wp

MONOCRYSTALLINE MODULE

Characteristics

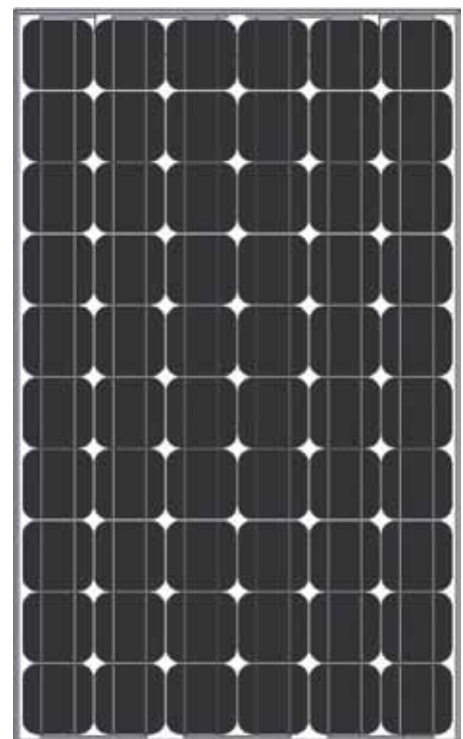
- High module conversion efficiency up to 15.72% through superior manufacturing technology.
- Low degradation and excellent performance under high temperature and low light conditions.
- Robust aluminum frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- Positive 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



Electrical parameters at STC

Nominal Power (Pmax)	130W	135W	140W	145W	150W	155W
Open Circuit Voltage (Voc)	21.6V	21.8V	22.0V	22.2V	22.4V	22.6V
Short Circuit Current (Isc)	8.16A	8.30A	8.45A	8.61A	8.75A	8.90A
Voltage at Nominal Power (Vmp)	17.2V	17.4V	17.6V	17.8V	18.0V	18.2V
Current at Nominal Power (Imp)	7.56A	7.76A	7.95A	8.15A	8.33A	8.52A
Module Efficiency (%)	13.18	13.69	14.20	14.70	15.21	15.72

STC: Irradiance 1000W/m², Cell temperature 25°C, AM1.5

Electrical parameters at NOCT

Nominal Power (Pmax)	95W	99W	102W	106W	110W	113W
Open Circuit Voltage (Voc)	19.9V	20.1V	20.2V	20.4V	20.6V	20.8V
Short Circuit Current (Isc)	6.61A	6.72A	6.84A	6.97A	7.09A	7.21A
Voltage at Nominal Power (Vmp)	15.7V	15.8V	16.0V	16.2V	16.4V	16.6V
Current at Nominal Power (Imp)	6.06A	6.27A	6.38A	6.55A	6.71A	6.81A

NOCT: Irradiance 800W/m², Ambient temperature 20°C, Wind speed 1 m/s

Mechanical Characteristics

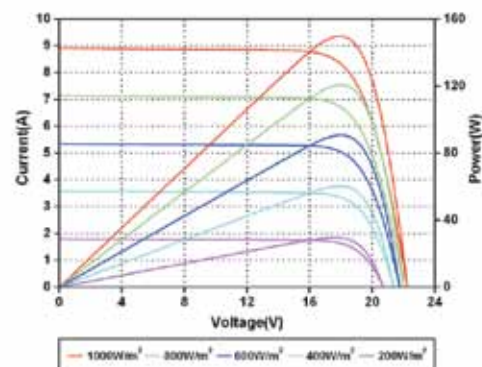
Cell type	Monocrystalline 156x156mm
Number of cells	36 (4 x 9)
Module dimension	1483x665x35mm
Weight	12kg
Front cover	3.2mm low-iron tempered glass
Frame	Anodized aluminum alloy
Junction box	IP65, 2 diodes
Cable	4mm ² , 900mm
Connector	MC4 or MC4 compatible
Standard packaging	28pcs/pallet
Module quantity per container	504pcs/20'GP

Temperature Characteristics

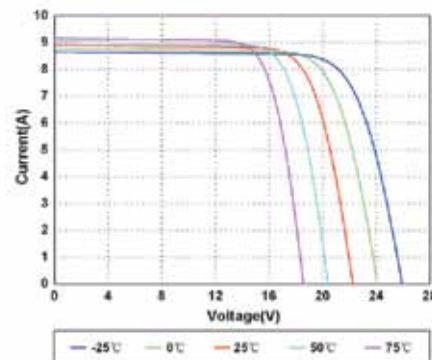
Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficients of Pmax	-0.43%/°C
Temperature Coefficients of VOC	-0.33%/°C
Temperature Coefficients of ISC	+0.056%/°C

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