

WKE 85-100

WATT MONOCRYSTALLINE MODULE



WKE-36M85 85Wp WKE-36M90 90Wp
WKE-36M95 95Wp WKE-36M100 100Wp
MONOCRYSTALLINE MODULE

Characteristics

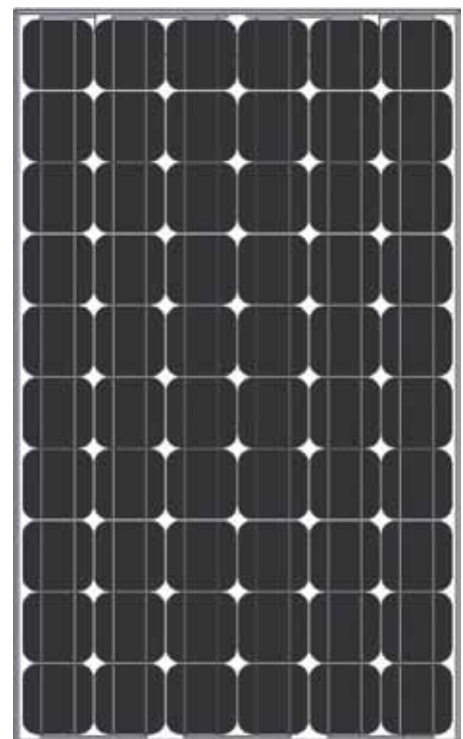
- High module conversion efficiency up to 15.90% through superior manufacturing technology.
- Low degradation and excellent performance under high temperature and low light conditions.
- Robust aluminum frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- Positive 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)	85W	90W	95W	100W
Open Circuit Voltage (Voc)	22.0V	22.2V	22.4V	22.6V
Short Circuit Current (Isc)	5.20A	5.38A	5.56A	5.75A
Voltage at Nominal Power (Vmp)	17.8V	18.0V	18.2V	18.4V
Current at Nominal Power (Imp)	4.78A	5.00A	5.22A	5.43A
Module Efficiency (%)	13.31	14.09	14.87	15.66

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

Electrical parameters at NOCT

Nominal Power (Pmax)	62W	66W	69W	73W
Open Circuit Voltage (Voc)	20.2V	20.4V	20.6V	20.8V
Short Circuit Current (Isc)	4.21A	4.36A	4.50A	4.66A
Voltage at Nominal Power (Vmp)	16.2V	16.4V	16.6V	16.7V
Current at Nominal Power (Imp)	3.83A	4.03A	4.16A	4.38A

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

Mechanical Characteristics

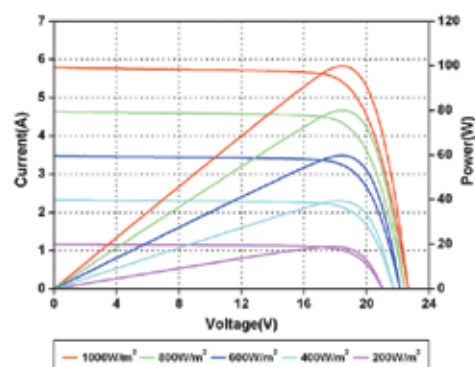
Cell type	Monocrystalline 125x125mm
Number of cells	36 (4x9)
Module dimension	1196x534x35mm
Weight	8kg
Front cover	3.2mm low-iron tempered glass
Frame	Anodized aluminum alloy
Junction box	IP65, 2 diodes
Cable	4mm ² , 900mm
Connector	MC4 or MC4 compatible
Standard packaging	28pcs/pallet
Module quantity per container	672pcs/20'GP

Temperature Characteristics

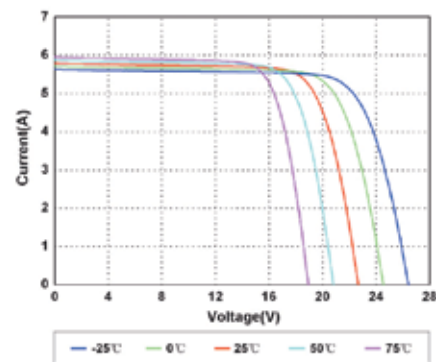
Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficients of Pmax	-0.43%/°C
Temperature Coefficients of VOC	-0.33%/°C
Temperature Coefficients of ISC	+0.056%/°C

Maximum Ratings

Operating Temperature	-40°C to +85°C
Maximum System Voltage	1000V DC
Maximum Series Fuse Rating	10A



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures