

## Characteristics

Model	HBM (230) 16498p/20	HBM (220) 16498p/20	HBM (210) 16498p/20
Open circuit voltage(Voc)	35.6V	35.6V	35.6V
Optimum operating voltage(Vmp)	28.4V	28.4V	28.4V
Short circuit current(Isc)	8.75A	8.37A	8.06A
Optimum operating current(Imp)	8.09A	7.75A	7.39A
Maximum power at STC(Pm)	230Wp	220Wp	210Wp

SCT: Irradiance 1000W/m<sup>2</sup>, Module temperature 25°C, AM=1.5

## Specifications

Cell	Poly-crystalline silicon solar cells 156mmX156mm
No. of cells and connections	60(6X10)
Dimension of module(mm)	1643 X 987 X 40
Weight(Kg)	19

## Limits

Operating temperature	-40~+85°C
Maximum system voltage	1000VDC

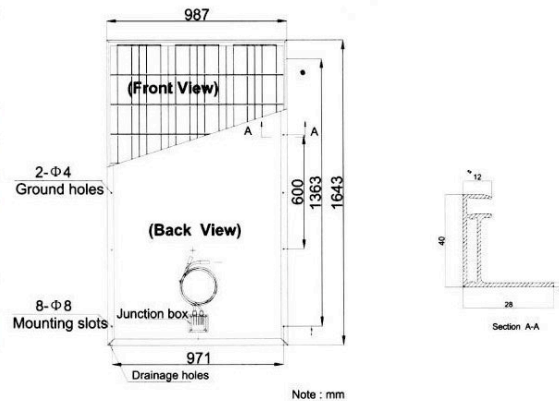
## Temperature Coefficients

NOCT	47°C±2°C
Current temperature coefficient	%/K 0.06±0.01
Voltage temperature coefficient	mV/K -(155±10)
Power temperature coefficient	%/K -(0.5±0.05)
Power tolerance	% ±3

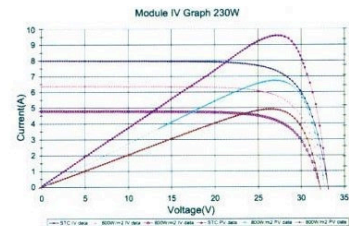
NOCT: Nominal Operation Cell Temperature

## Output

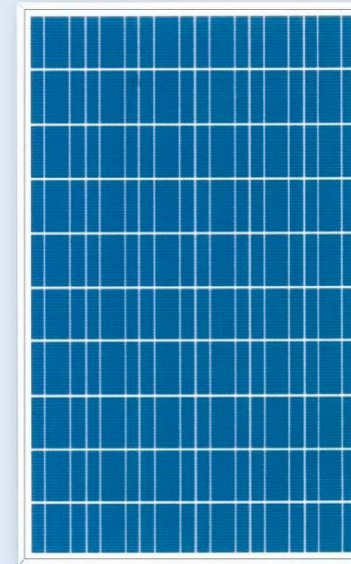
Cable	Mc/ZJRH Plug Type IV
Cable spec	LAPP(4.0mm <sup>2</sup> )
Cable length	800mm(+) and 1200mm(-)



## Characteristics



# Solar Modules



**HBM (230) 16498p/20**

**HBM (220) 16498p/20**

**HBM (210) 16498p/20**

## Product specifications

- 60poly-crystalline cells connected in series
- Certified for optimum use in 1000VDC
- Designed for optimum use in commercial grid-tied applications
- Pre-wired junction box with Solarlok Connectors

## Warranty Instance

- 5 years product warranty, 10 years-10% of power and 25 years-20% of power

## Certifications

- ISO9001
- IEC61215
- TUV
- CE
- Golden Sun Certification