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EnergyPal

Solar Panel Guide Specification Data Sheet

**Fortune CP Ltd
FCP-MWF 305-320W
FCP-MWF 320W**

Also available on the web at
EnergyPal.com/fortune-cp-ltd-solar-panels/fcp-mwf-320w

FORTUNE CP MODULE

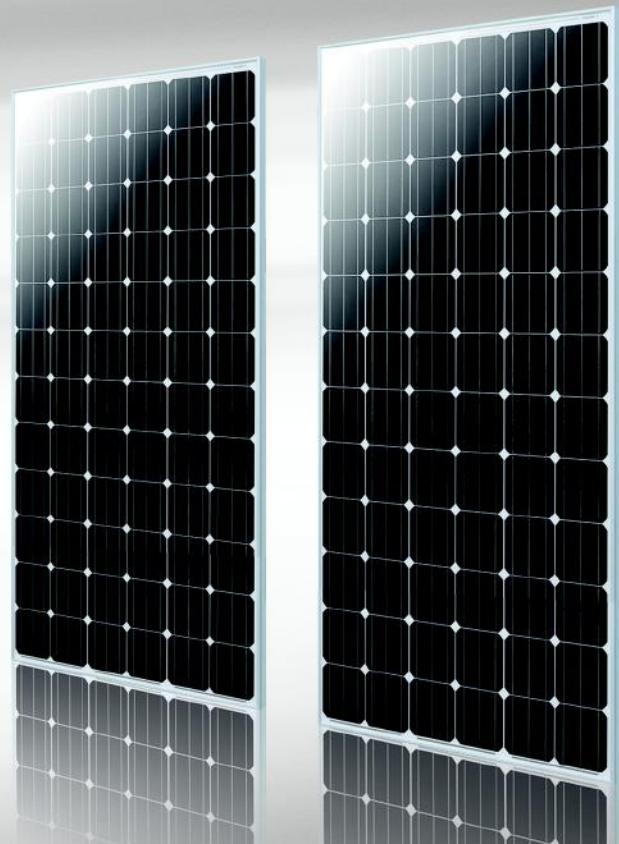
Monocrystalline

FCP-MWF 320W

FCP-MWF 315W

FCP-MWF 310W

FCP-MWF 305W



High conversion efficiency
High module efficiency to guarantee power output.



Self-cleaning glass
Coating glass for self-cleaning, reduce surface dust.



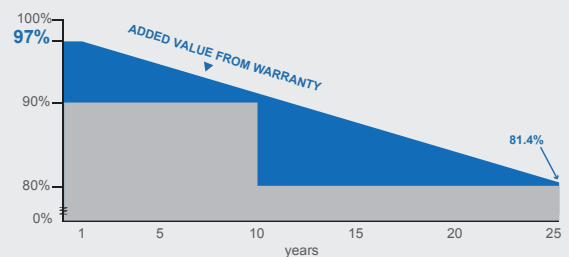
Outstanding low irradiation performance
Excellent module efficiency even in the weak light conditions, such as morning or cloudy.



Excellent loading capability
2400Pa wind loads, 5400Pa snow loads.

0 to +5W

0 to +5W positive tolerance
Detailed information in Electrical Specifications.



25 25-year performance warranty

10 10-year warranty on materials and workmanship

IEC 61215 Ed.2
IEC 61730
IEC 61701



ELECTRICAL SPECIFICATIONS

Model Type				
Peak Power (Pmax)	320W	315W	310W	305W
Module Efficiency	16.49%	16.23%	15.98%	15.72%
Maximum Power Voltage (Vmp)	37.00V	36.55V	36.82V	36.75V
Maximum Power Current (Imp)	8.65A	8.62A	8.42A	8.30A
Open Circuit Voltage (Voc)	46.31V	45.91V	45.40V	45.12V
Short Circuit Current (Isc)	9.08A	9.01A	8.97A	8.88A
Power Tolerance	0 to +5W			
Maximum System Voltage	DC 1000V (IEC)			
Nominal Operating Cell Temperature	44.4±2°C			
Fire Safety	Class C			
Maximum Series Fuse Rating	20A			

MECHANICAL SPECIFICATIONS

Cell Type	156mm x 156mm
Number of Cells	72 cells in series
Weight	26.3 kg (57.98 lbs)
Dimension	1956×992×40mm (77.01×39.06×1.58 inch)
Max Load	5400 Pascals (112 lb/ft ²)
Junction Box	IP67 rated
Connector	MC4 Compatible

TEMPERATURE COEFFICIENT

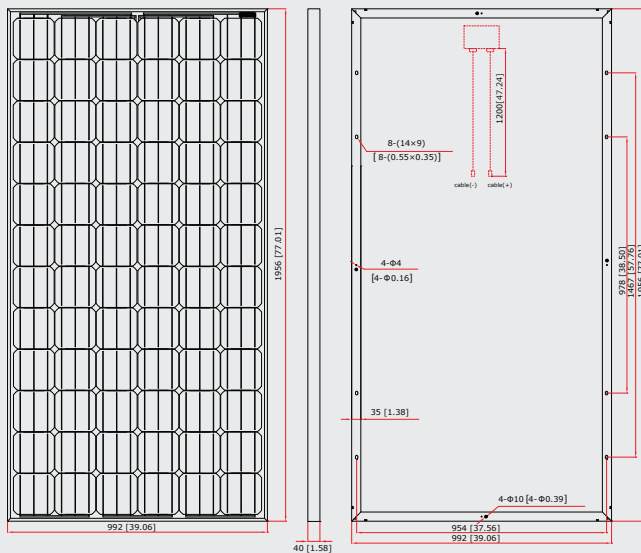
Temp. Coeff. of Isc (TK Isc)	0.02% /°C
Temp. Coeff. of Voc (TK Voc)	-0.31% /°C
Temp. Coeff. of Pmax (TK Pmax)	-0.44% /°C

PACKING MANNER

Container	40' HQ
Pieces per Pallet	26
Pieces per Container	572

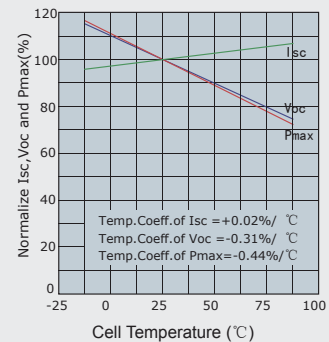
PHYSICAL CHARACTERISTICS

Unit:mm (inch)

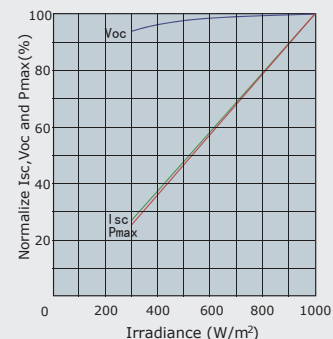


ELECTRICAL CHARACTERISTICS

Temperature Dependence of Isc, Voc and Pmax



Irradiance Dependence of Isc, Voc and Pmax (AM1.5, Cell Temperature 25°C)



Note: the specifications are obtained under the Standard Test Conditions (STCs): 1000 W/m² solar irradiance, 1.5 Air Mass, and cell temperature of 25°C. The NOCT is obtained under the Test Conditions: 800 W/m², 20°C ambient temperature, 1m/s wind speed, AM 1.5 spectrum.

Please contact info@fortuneep.com for technical support. Actual legally binding transactions will be subject to contract. The parameters are for reference only and not part of a contract. The specifications are subject to change without prior notice. Fortune CP Ltd, Regus House, Admirals Park, Dartford, DA2 6QD, UK. (44)1322303070. www.fortuneep.com