

# SOLAR PANEL

**MasterPower**  
Unlimited power

## MP-MF8613M (HV)-460W

MONO PERC 9BB HALF-CUT



### Certificates

ISO 9001: 2015  
Quality Management System

IEC 61215 / IEC 61730

ISO 14001: 2015  
Environmental Management System

OHSAS 18001: 2007  
Occupational Health & Safety Management System

### Main Features

#### Half-Cut technique leads to increased power output

When the cells are cut into halves, the current are also halved, which enables less internal loss. Series-parallel wiring improves power performance. The working temperature of module and junction box are lower than that of conventional types, which effectively reduces the hot spot risk and reduces overall module damage.

#### Series-parallel wiring mode results in reduced shading loss

Series-parallel wiring will not only reduce power lows from shade but also improves the effective use of supports and space.

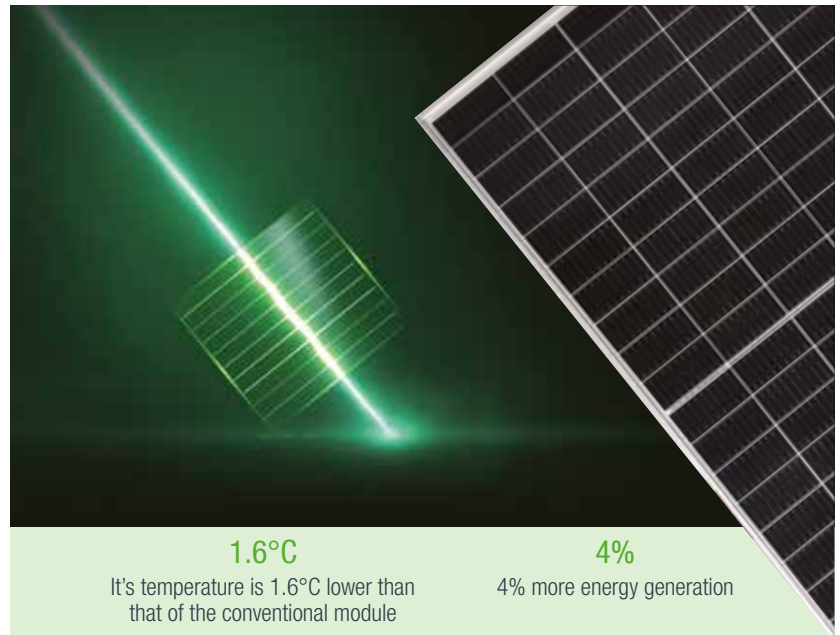
#### Excellent temperature performance

The temperature of HC module is 1.6°C lower than that of the conventional module under the same working condition, which results less power loss.

#### Reduced encapsulation loss due to reduced current

HC module is of lower current and lower CTM loss at around 0.2%, while the CTM loss of conventional module is 1%.

#### 1500V high system voltage design



**1.6°C**

It's temperature is 1.6°C lower than that of the conventional module

**4%**

4% more energy generation

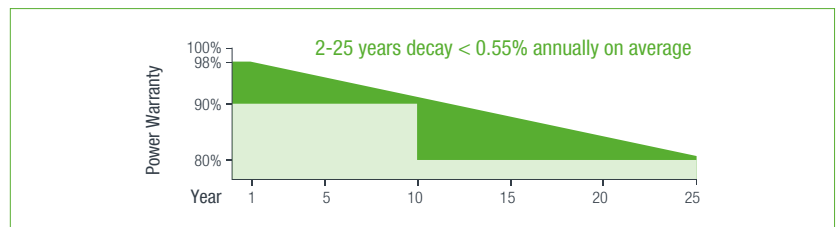
### Linear Performance Warranty

**12**  
years

Product Warranty  
on Materials and Workmanship

**25**  
years

Linear Power  
Output Warranty



### Electrical Parameters @ STC

Max. Power Output Pmax (W)	460
Power Tolerance	0 ~ 3%
Max. Power Voltage Vmp (V)	42.80
Max. Power Current Imp (A)	10.75
Open Circuit Voltage Voc (V)	51.40
Short Circuit Current Isc (A)	11.06
Module Efficiency (%)	21.12

\*STC (Standard Test Condition): Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass 1.5

\*Measurement Tolerance (±3.0%)



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