

SOLAR PANEL

MasterPower
Unlimited power

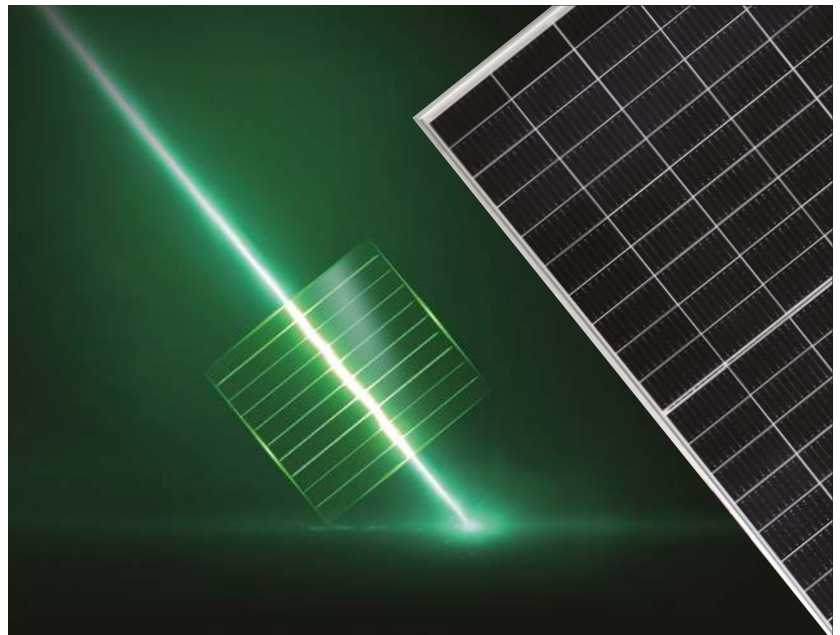
MP-MF8614M (HV)-550W

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



Key Features

- 9 Busbar Solar Cell**
 9 busbar cell design improves module efficiency and offers better aesthetic appearance for rooftop in stallation.
- High Efficiency**
 Higher module conversion efficiency (up to 24.67%) benefit from Passivated Emmitter Rear Contact (PERC) technology.
- PID Resistance**
 Excellent Anti-PID perform ance guarantee limited power degradation for mass production.
- Low-light Performance**
 Advanced glass and cell surface textured design ensure excellent performance in low-light tenvironment.
- Severe Weather Resilience**
 Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).
- Durability Against Extreme Environmental Conditions**
 High salt mist and ammonia resistance certified by TÜV NORD.

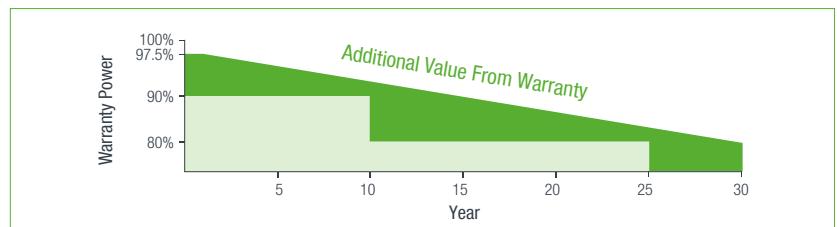
Special Warranty

20 years

Product Warranty

30 years

Linear Power Output Warranty



Electrical Parameters @ STC

Maximum Power (Pmax)	550 W
Open Circuit Voltage (Voc)	50.32 V
Short Circuit Current (Isc)	13.90 A
Voltage at Maximum Power (Vmp)	42.28 V
Current Maximum Power (Imp)	13.01 A
Module Efficiency (%)	21.28

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



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Electrical Characteristics at NOCT

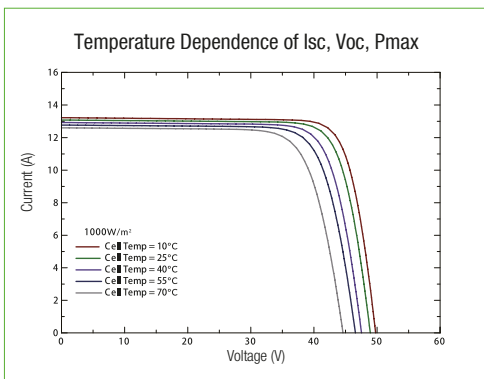
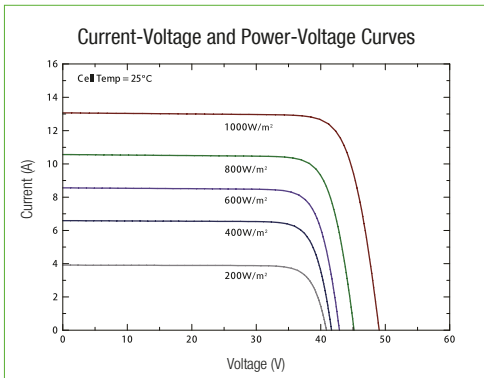
Maximum Power (Pmax)	417 W
Open Circuit Voltage (Voc)	48.10 V
Short Circuit Current (Isc)	11.07 A
Voltage at Maximum Power (Vmp)	39.90 V
Current Maximum Power (Imp)	10.45 A
Module Efficiency (%)	21.28

NOCT: Irradiance 800 W/m², Ambient Temperature 20°C, Wind Speed 1m/s, AM1.5G

Temperature Characteristics

Nominal Operating Cell Temperature (NOCT)	45°C ± 2°C
Temperature Coefficients of Pmax	-0.39% / °C
Temperature Coefficients of VOC	-0.28% / °C
Temperature Coefficients of ISC	0.05% / °C

IV Curves



Mechanical Characteristics

Cell type	Mono 182 x 182 mm
Number of cells	144 (6 x 24)
Module dimensions	2229 x 1133 x 35 mm
Weight	28.5 kg
Front cover	3.2 mm, Anti-Reflection Coating, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction box	Clasificación IP67
Cable	TÜV 1 x 4.0 mm ² , Length: 300 mm or Customized Length
Connector	PV Connector (compatible)

Packaging

Standard packaging	31 pcs / pallet
Module quantity per 20' container	155 pcs
Module quantity per 40' container	20 pallet / 620 pcs (HQ)

Engineering Drawings

