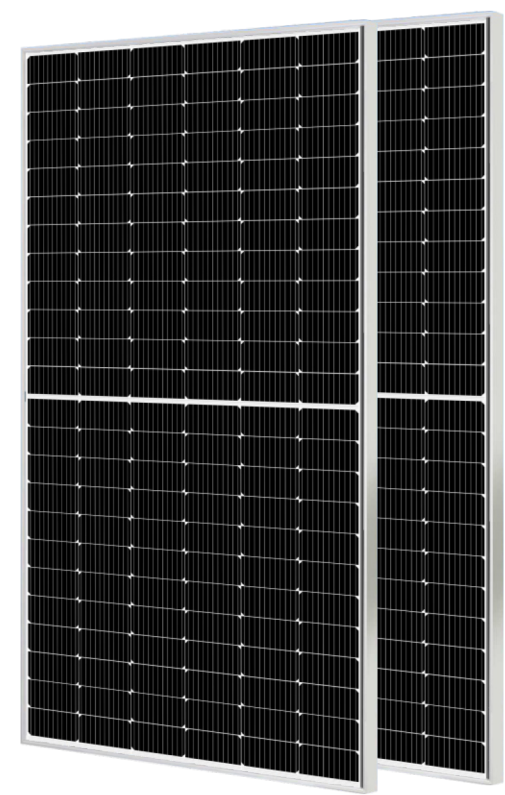


Module Picture



MSD540M-144

Mono Half-cut Single/Double Glass Module

525-550/MB Series

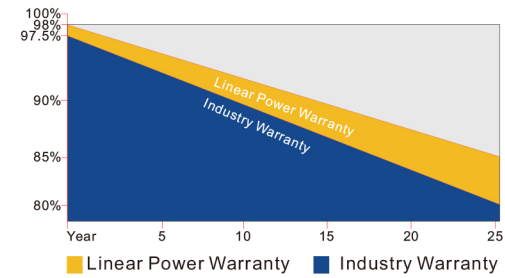
**INTRODUCTION**  
MONO half-cut single / double glass module, assembled with multi-busbar PERC technique and half-cut structure, which can not only absorb the energy from the front of the module, but also absorb the reflected light and the scattered light from the back, offer the advantages of higher power output, reduce shading effect on the energy generation, enhance the mechanical load bearing capacity as well.

LCOE save 6-8%

- ↓6% Saving logistics cost
- ↓7% Saving cable cost
- ↓8% Saving bracket cost
- ↓9% Saving labor cost

First-class Quality Assurance

- 10-year warranty for material and technology
- 25-year linear power output warranty

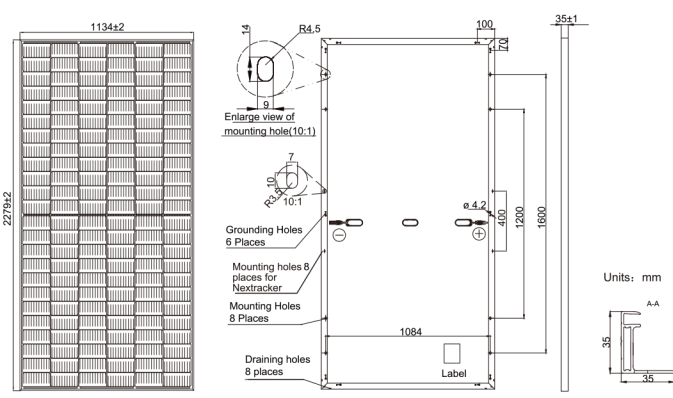


Comprehensive Certificates

- IEC61215, IEC61730
- ISO9001:2015 Quality management systems
- ISO45001: Environmental management systems
- ISO45001:2018 Occupational health and safety management systems



Mechanical Diagrams



PS: Frame color and cable length can be customized

Electrical Parameters at STC

| Module Type                     | MSD525P                                         | MSD530P | MSD535P | MSD540P | MSD545P | MSD550P |
|---------------------------------|-------------------------------------------------|---------|---------|---------|---------|---------|
| Rate Maximum Power( Pmax/W)     | 525                                             | 530     | 535     | 540     | 545     | 550     |
| Module Efficiency(%)            | 20.30                                           | 20.50   | 20.70   | 20.90   | 21.10   | 21.30   |
| Open Circuit Volatge(Voc/V)     | 48.95                                           | 49.15   | 49.35   | 49.55   | 49.75   | 49.95   |
| Short Circuit Current(Isc/A)    | 13.67                                           | 13.74   | 13.82   | 13.89   | 13.97   | 14.05   |
| Voltage at Pmax(Vmp/V)          | 41.10                                           | 41.27   | 41.45   | 41.62   | 41.80   | 41.97   |
| Current at Pmax(Impp/A)         | 12.78                                           | 12.85   | 12.91   | 12.98   | 13.05   | 13.11   |
| Power Tolerance                 | 0~+5w                                           |         |         |         |         |         |
| Temperature Coefficient of Isc  | +0.046%/°C                                      |         |         |         |         |         |
| Temperature Coefficient of Voc  | -0.276%/°C                                      |         |         |         |         |         |
| Temperature Coefficient of Pmax | -0.350%/°C                                      |         |         |         |         |         |
| STC                             | Irradiance 1000W/m² Cell Temperature 25°C AM1.5 |         |         |         |         |         |

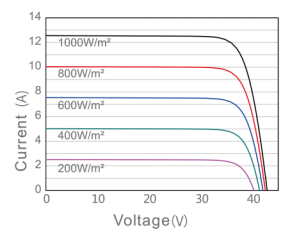
Remark: Electrical data in this catalogue does not refer to a single module, and it's not part of the offer. It only serves for the comparison among different module types.

Electrical Parameters at NOCT

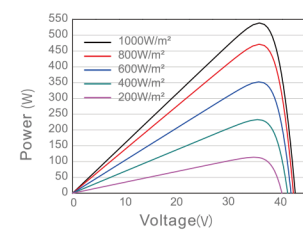
| Module Type                                                          | MSD525P | MSD530P | MSD535P | MSD540P | MSD545P | MSD550P | Operating Temperature          | -40~+85°C |
|----------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|--------------------------------|-----------|
| Rate Maximum Power( Pmax/W)                                          | 396     | 400     | 404     | 407     | 411     | 414     | Maximum System Voltage         | 1500VDC   |
| Open Circuit Voltage(Voc.V)                                          | 46.00   | 46.13   | 46.26   | 46.38   | 46.50   | 46.63   | NOCT                           | 45±2°C    |
| Short Circuit Current(Isc/A))                                        | 10.95   | 10.99   | 11.03   | 11.08   | 11.12   | 11.17   | Fireproof Performance          | Glass C   |
| Voltage at Pmax(Vmp/V)                                               | 38.35   | 38.55   | 38.76   | 38.95   | 39.16   | 39.31   | Maximum Series Fuse            | 25A       |
| Currrnt at Pmax(Impp/A)                                              | 10.33   | 10.38   | 10.43   | 10.46   | 10.50   | 10.53   | Temperature Coefficient of Voc | -0.276%/K |
| NOCT: Irradiance 800W/m² Ambient Temperature 20°C Wind at 1m/S AM1.5 |         |         |         |         |         |         | Temperature Coefficient of Isc | +0.046%/K |

Characteristics

Current Voltage Curve MSD540P



Power Voltage Curve MSD540P



Current Voltage Curve MSD540P

