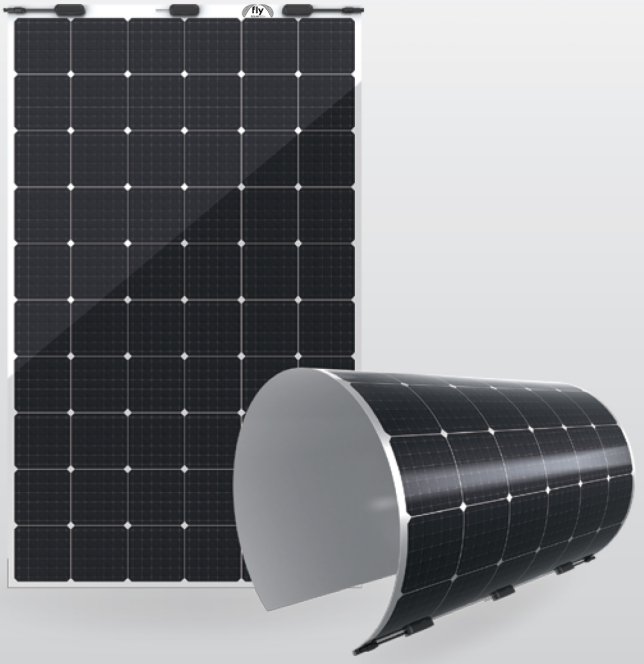
# F-MWT Series
# 310-330W

## Mono PERC
## Flexible Module



IEC61215/IEC61730

## Flexible PV Module

**Light, Thin Design**
1.4mm thickness, 4.3kg weight, leading level in PV industry

**BIPV Application**
Further integrate with buildings in terms of shape and installation for BIPV application

**High Reliability**
Conductive back sheet 2D encapsulation without soldering, resulted lower degradation under multiple extreme testing condition

**Ultra Flexible**
Ultra-thin silicon wafers with advanced organic polymer encapsulation materials, minimum bending radius reach 0.25m

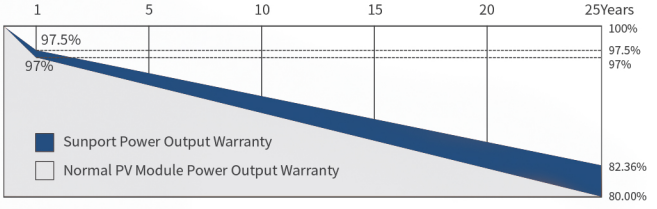
**High Efficiency**
MWT back contact cell and modules with busbar-free design and higher efficiency

**Lead Free**
Eco-friendly PV design achieves Lead-free MWT module without soldering materials

## Reinsurance Coverage for 25 Years

12year Quality Warranty

25year Performance Warranty




※1st year degradation less than 2.5%, 25 years power output 82.36% guaranteed.

## Insured by LLOYD'S

LLOYD'S

## Comprehensive Qualifications & Certifications

★ ISO 9001: 2015 Quality Management System
★ ISO 14001: 2015 Environment Management System
★ ISO 45001: 2018 Occupation Health Safety Management System

## Electrical Characteristics at Standard Test Conditions(STC)

| Spec/Model | Unit | F-MWT310M60S | *F-MWT315M60S* | F-MWT320M60S | F-MWT325M60S | F-MWT330M60S * |
|---|---|---|---|---|---|---|
| Max-Power(Pm) | W | 310 | 315 | 320 | 325 | 330 |
| Power Tolerance | W | | | 0~+5 | | |
| Max-Power Voltage(Vm) | V | 32.8 | 33.0 | 33.2 | 33.4 | 33.6 |
| Max-Power Current(Im) | A | 9.45 | 9.55 | 9.64 | 9.73 | 9.82 |
| Open-Circuit Voltage(Voc) | V | 39.9 | 40.1 | 40.3 | 40.5 | 40.7 |
| Short-Circuit Current(Isc) | A | 9.83 | 9.90 | 9.99 | 10.08 | 10.2 |
| Effective Module Efficiency(ηm) | % | 20.22 | 20.55 | 20.88 | 21.20 | 21.53 |

STC: AM=1.5，Irradiation 1000W/m²，Module Temperature 25℃ *not certified TUV

## Electrical Characteristics at Nominal Module Operating Temperature（NMOT）

| Spec/Model | Unit | F-MWT310M60S | F-MWT315M60S | F-MWT320M60S | F-MWT325M60S | F-MWT330M60S |
|---|---|---|---|---|---|---|
| Max-Power(Pm) | W | 232 | 236 | 240 | 244 | 248 |
| Max-Power Voltage(Vm) | V | 30.0 | 30.2 | 30.4 | 30.6 | 30.8 |
| Max-Power Current(Im) | A | 7.73 | 7.81 | 7.89 | 7.97 | 8.05 |
| Open-Circuit Voltage(Voc) | V | 36.5 | 36.6 | 36.7 | 36.8 | 36.9 |
| Short-Circuit Current(Isc) | A | 8.05 | 8.12 | 8.20 | 8.30 | 8.41 |

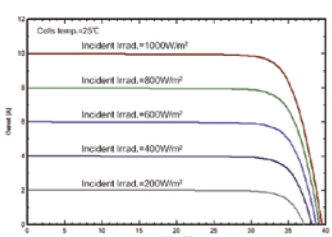
NMOT: Irradiation 800W/m², Ambient temperature 20°C, Wind Speed 1m/s

## Temperature Coefficient

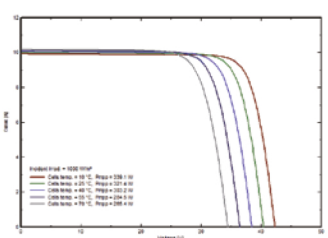
| | |
|---|---|
| Nominal Module Operating Temperature | 43±2°C |
| Temperature coefficient of Pmax | -0.36%/°C |
| Temperature coefficient of Voc | -0.28%/°C |
| Temperature coefficient of Isc | 0.06%/°C |

## I-V Curve

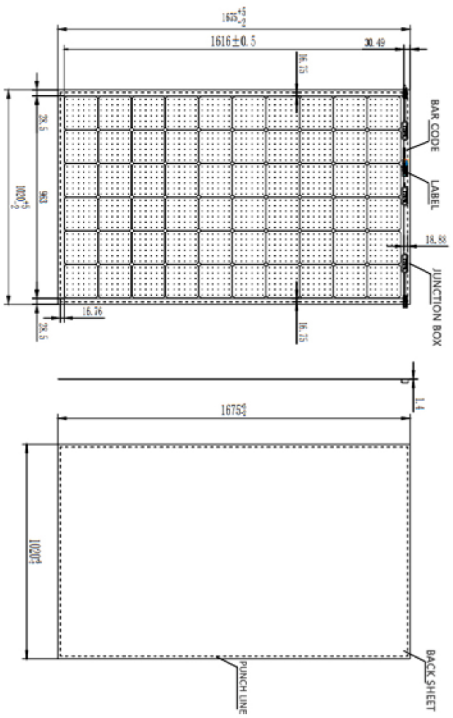
I-V Curves of SPP320M60S at different irradiance




I-V Curves of SPP320M60S at different cell temperature



## Module Size




## Mechanical Characteristics

| | |
|---|---|
| Effective Module Dimension(L×W) | 1598.75mmx958.75mm |
| Module Installation Dimension(L×W×H) | 1675mmx1020mmx1.4mm |
| Weight | 4.3 kg |
| Back material | Back Sheet(white, transparent, black) |
| Cell (quantity / material / type / dimensions) | 60(10x6) / Monocrystalline / 158.75mm |
| Encapsulant | EVA/POE |
| Frame | None |
| Junction box(protection degree) | IP68 |
| Cable (length/cross-section area) | Customizable / 4mm² |
| Connector | MC4 Compatible |
| Mounting Hole | Aperture 5mm |

## Operating Conditions

| | |
|---|---|
| Max. system voltage | DC1500V(IEC) |
| Max. series fuse rating | 15A |
| Operating temperature range | -40°C～+85°C |
| Bending radius | >0.20m |

## Package

| Container Size | Quantity(pcs) | Quantity(per pallet) |
|---|---|---|
| 40' HQ | 1104 | 46 |