



## Solar Panel Flexible MSFL



### Key Features

#### High Reliability

- Cell type High efficiency mono-crystalline

#### High Efficiency

- Cell efficiency 22.8~24%

#### High Durability

- Power tolerance  $\pm 3\%$
- 10-years performance guarantee 90%
- Power degradation first year 1%
- Power degradation subsequent year 0.75%

### Product Specifications

Electrical parameters at standard test conditions

STC  1.000W/m<sup>2</sup>

 Cells Temperature 25°C

 AM=1.5

#### Specifications

Item	MSFL-100	MSFL-150	MSFL-200
Max Power (Pmax)	100W	150W	200W
Max voltage (Vmp)	19.5V	19.5V	20V
Max current (Imp)	5.13A	7.69A	10.1A
Open circuit voltage (Voc)	23.4V	23.4V	24V
Short circuit current (Isc)	5.54A	8.37A	10.3A
Max system voltage	600V		
Maximum Series Fuse Rating	20A		

#### Electrical parameters at NMOT test conditions

NMOT  Irradiance 800W/m<sup>2</sup>

 Ambient Temperature 20°C

 AM=1.5

 Wind Speed 1 m/s

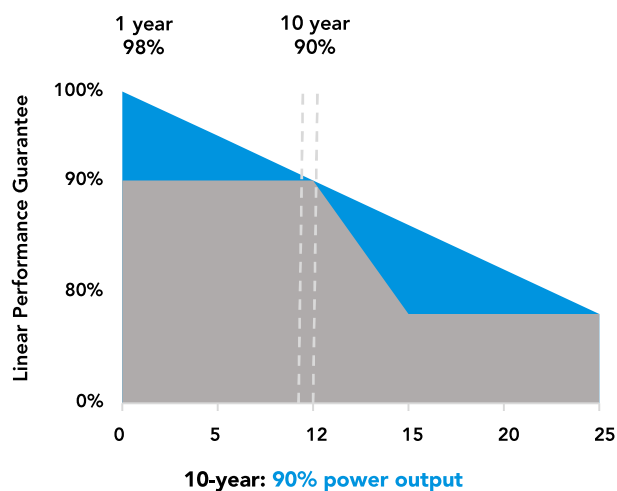
#### Specifications

Item	MSFL-100	MSFL-150	MSFL-200
Max Power (Pmax)	100W	150W	200W
Max voltage (Vmp)	19.5V	19.5V	20V
Max current (Imp)	4.1A	6.15A	8.08A
Open circuit voltage (Voc)	23.4V	23.4V	24V
Short circuit current (Isc)	4.43A	6.7A	8.24A

## Mechanical Data

Item	MSFL-100	MSFL-150	MSFL-200
L*W*H (mm)	1118*552*20	1239*720*20	1615*720*20
Number of cells	36 (3*12)	36 (4*9)	36 (4*9)
Cell Dimension (mm)	166		
Output cables	0.9 meters		
Connectors	MC4		
Weight	2 kg	3.3 kg	4.5 kg
Color	Black		

## Performance Guarantee



## Temperature Characteristics

Electrical parameters at standard test conditions

STC ☀️ 1.000W/m<sup>2</sup> 🌡️ Cells Temperature 25°C ☁️ AM=1.5

### Specifications

Item	Specification
Temp.Coeff.of I <sub>sc</sub> (I <sub>sc</sub> )	+0.05%/°C
Temp.Coeff.of V <sub>oc</sub> (V <sub>oc</sub> )	- 0.29%/°C
Temp.Coeff.of P <sub>maxf</sub> (P <sub>max</sub> )	- 0.34%/°C
Operating temperature	- 40-+85°C
Normal operating cell temperature	44±2°C

## Test, Certifications and Warranties

- ✓ System certifications ISO 9001
- ✓ Certifications CE
- ✓ Extreme wind and snow load testing: Withstand extreme wind load (2400 Pascal) and snow load (5400 Pascal)
- ✓ Junction box IP65
- ✓ Warranty 10 years products warranty



1) Measurement Tolerances: P<sub>max</sub> (± 3%), I<sub>sc</sub> & V<sub>oc</sub> (± 3%) - Module Type 0/+5W

2) STC (Standard Testing Condition): Irradiance 1000W/m<sup>2</sup>. Cell Temperature 25°C. AM 1.5

3) NMOT (Nominal Operating Module Temperature): Irradiance 800W/m<sup>2</sup>. NMOT. Ambient Temperature 20°C. AM 1.5. Wind Speed 1m/s

4) Item numbers 1519400/1519410/1519420/1519430/1519440/1519450/1519460/1519470

\*The application of our layer adds 15/20 more watts compared to the standard cell.

Specifications included in this datasheet are subject to change without notice. Mestic reserves the right of final interpretation.