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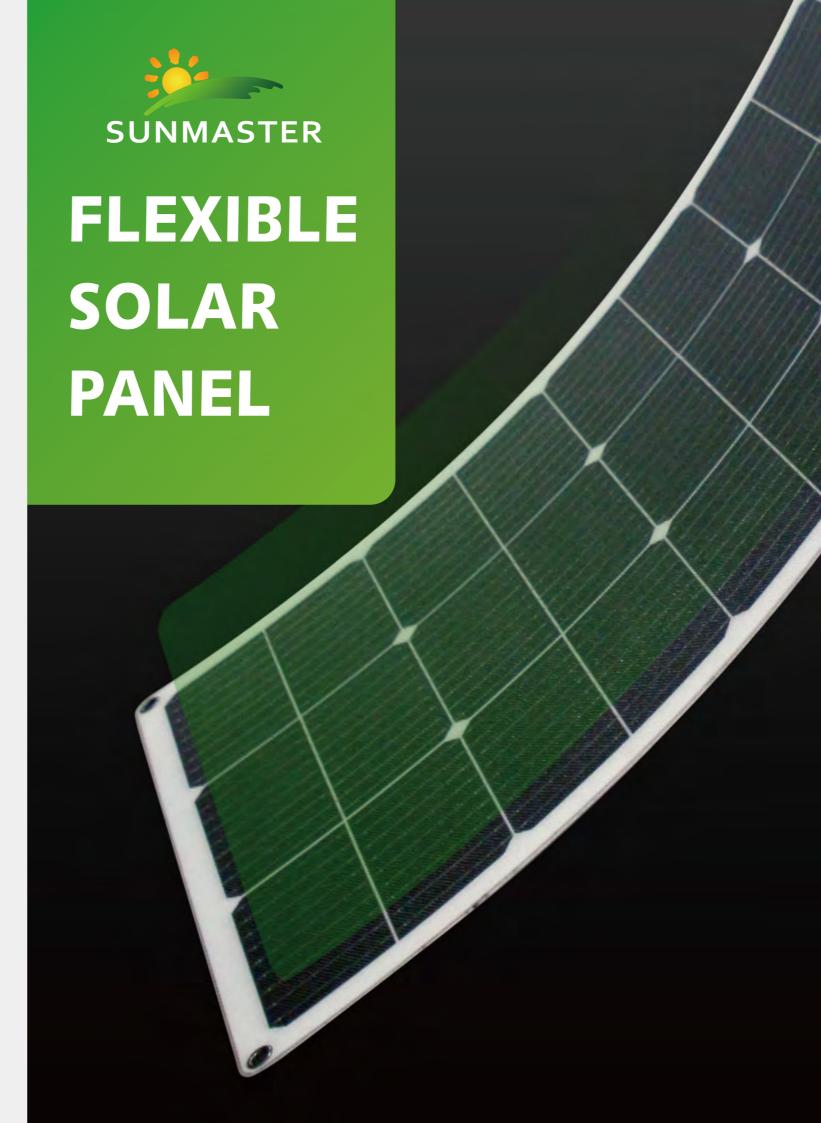
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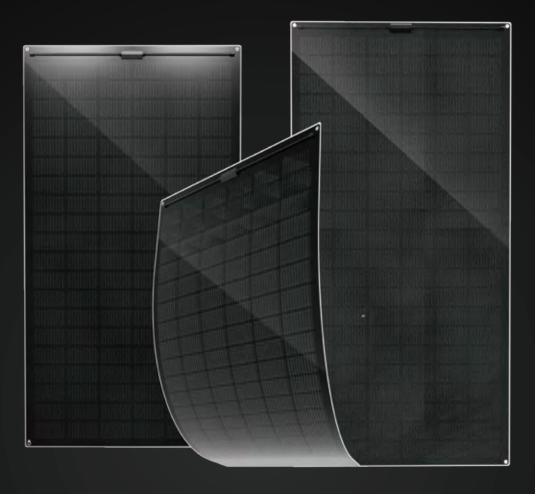
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50NMASIEK FLEXIBLE – Panelseries 65 W • 100 W • 125 W-HV • 160 W-HV

EFX FLEXIBLESolar panels



Easy and Low Cost Installation. The panel can be installed with adhesives and/or use of stainless steel grommets in the panel. Warranty: 5 years limited power warranty of 80% of the minimum specified power rating.

Semi-flexible premium solar panel with integrated aluminum plate and innovative solar cells guarantee exceptional stability and highest yields in the marine and caravan sector.

- Solar Panel with high performance solar cells
- Optimum energy yield even in diffuse light conditions
- Higher stability thanks to integrated aluminum plate
- Surface coating made of ETFE with high durability
- 80% less weight than conventionally framed glass modules
- High efficiency of over 20%



High Power and Flexible

Made with SunMaster's highest power Gen II back contact cells, SunMaster's flexible panels deliver the highest power output and the highest charging capacity in their product class. SunMaster's panels are constructed with top-grade, light-weight polymer materials, allowing for easy transport, installation and panel flexing up to 30 degrees.



Designed for Toughness

The SunMaster Maxeon® Solar Cell is the only cell built on a solid copper foundation. Flexible panels made with SunMaster cells are resistant to power loss via cracking and corrosion, unlike conventional cells, which are much more likely to lose power when bent or subjected to a moist environment. SunMaster flexible panels are the #1 choice for customers due of the combination of high power and cell ruggedness.



Easy and Low Cost Installation

The panel can be installed with adhesives and/or use of stainless steel grommets in the panel. The panels have standard quick-connect cables. An easy-to-follow installation guide is provided with each panel. Warranty: 5 years limited power warranty of 80% of the minimum specified power rating.

High Power and Flexible

These light weight, thin rigid and lexible solar panels are a fantasic way to ensure you are topped up with electricity without having the burden of a large standard solar panels.

These panels are lower voltage than a standard solar module and are ideal for smaller projects.

Available in 10W to 160W, our low voltage solar panels can be easily atached to wide variety of mouning surfaces. The waterproof juncion box and MC4 connectors allow for simple connecions to solar charge controllers ensuring that maximum collecion of energy.

Flexible Solar Panels



Rigid Solar Panels



Standard Features

- Using monocrystalline or polycrystalline cells with eiciency between 15 to 18%.
- Waterproof connection box
- Custom sizes and mouning opions available
- Ready to charge any size batery bank
- Highly resistant to saline environments and wet weather

Applicaions:

RV, Golf Car, Patrol Car, Signaling System, Water Pumping Systems, Travel Tourism Car, Yacht, Roof Power generaion, Backpack, Tents.

Warranty: 25 Year Power Output

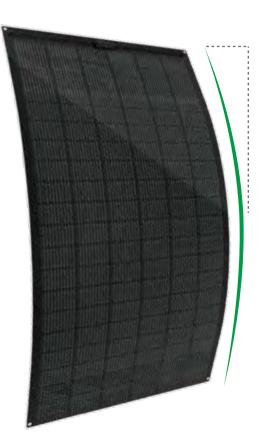
10 Years Materials and Workmanship

Flexible Panel Features

- Bend rate from 10-30 degree.
- Ultra sot, very light and 3mm thin
- Custom sizes available

Flexible Panel Mouning Opions

- DIY Silicon Ready
- Double sided tape / velcro
- Grommet Holes
- Custom mouning opions



Flexible 10 to 30° Bend

Flexible Panel Mouning Opions

- Annodized Aluminum frame ------

- **5** EVA encapsulant material ----
- 6 Insulaing Back Sheet -----

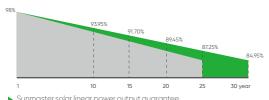
Juncion Box -----

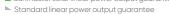


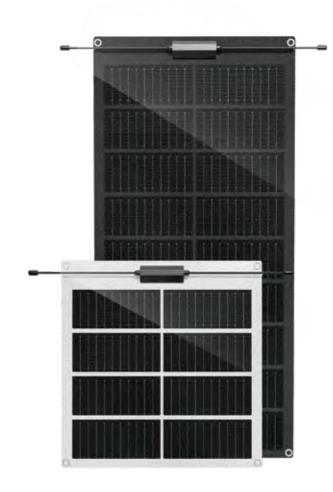
SM50-100W FX

50-100W Monocrystalline high-efficiency cell flexible PV module

Quality Guarantee







50-100W 21.5-23.9%

Product characteristics



Lightweight and ultra-thin design

The component weight is as light as 3.12kg in weight and as thin as 3mm, meeting the requirements of various low load projects.



Ultra high flexibility

With ultra-thin silicon chip and advanced organic polymer materials, the component can perfectly fit various curved roofs.



Efficient and reliable

It is improving the battery conversion efficiency.
The power generation performance is excellent under low light conditions.



Customization

Products can be customized to meet the needs of different application scenarios



Easy installation

costs of installation and transport are greatly reduced.



Plumbum free environmental protection

Base on the concept of green environmental protection, the production process and materials achieve plumbum free

Long lasting and stable quality

- Through various long-term reliability tests
- The reliability of components is effectively ensured under EL test before and after lamination.
- ISO 9001,ISO 14001 and ISO 45001
- Fully automatic production line and the leading photovoltaic technology

Electrical Performance Parameter(STC)

SMFX-100
31 II X 100
100W
0~+5w
18
5.5
19.8
5.05

STC·AM=1.5, Irradiance1000W/m², Operating Temperature:25°C

Mechanical

Cell array	11 (182/2) *5
Size	595*515*2mm/1115*515*2mm
Size of 46-piece box	1180*1680*1120mm
Front film	Lightweight high transparent polymer materials
Wind/snow pressure	2400mpa/5400mpa

Temperature coefficient

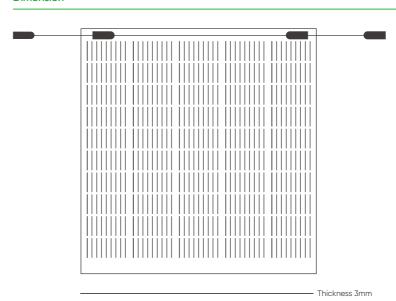
Battery nominal operating temperature	25±2°C
Current temperature coefficient (Isc)	+0.05%/°C
Voltage temperature coefficient	-0.32%/°C
Power factor (Pm)	-0.40%/°C

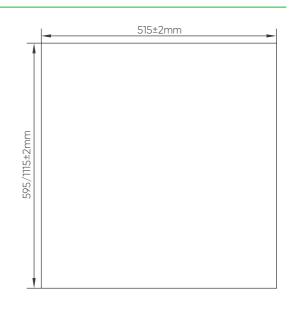
Back board colour	Black and white
Terminal block	Protection grade IP67
Cable	4mm²
Diode	2
Weight	0.9KG/1.5KG

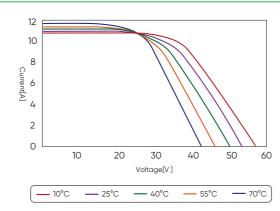
Working conditions

The largest system voltage	DC1500V(IEC
The largest fuse rated current	20
Operating temperature range	-40~+120 (
Connector	MC Compatibl

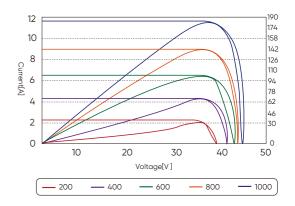
Dimension







Temperature curves of current and voltage at different temperatures



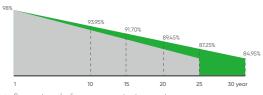
Curve of current and voltage/curve of power voltage under different irradiance



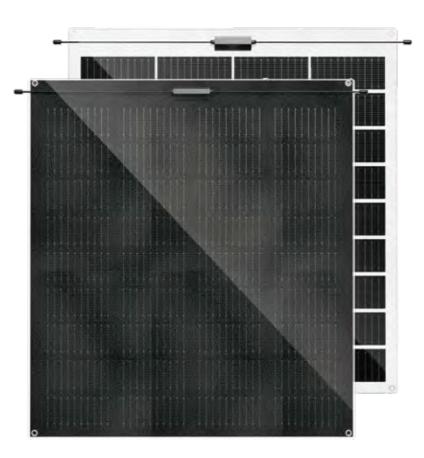
SM160-170W MFX

160-170W Monocrystalline high-efficiency cell flexible PV module

Quality Guarantee







160-170W 21.5-23.9%

Product characteristics



Lightweight and ultra-thin design

The component weight is as light as 3.12kg in weight and as thin as 3mm, meeting the requirements of various low load projects.



Ultra high flexibility

With ultra-thin silicon chip and advanced organic polymer materials, the component can perfectly fit various curved roofs.



Efficient and reliable

It is improving the battery conversion efficiency.
The power generation performance is excellent under low light conditions.



Customization

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<u>Plumbum</u> free environmental protection

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Long lasting and stable quality

- Through various long-term reliability tests
- The reliability of components is effectively ensured under EL test before and after lamination.
- ISO 9001,ISO 14001 and ISO 45001
- Fully automatic production line and the leading photovoltaic technology

Electrical Performance Parameter(STC)

Parameter Name	Unit	SMFX-160	SMFX-165	SMFX-170
Maximum power (Pm)	W	160W	165W	170W
Power Deviation	W	0~+5w	0~+5w	0~+5w
Optimal working voltage (Vm)	V	32.175	32.395	32.725
Optimal working current (lm)	А	5.155	5.21	5.305
Open-circuit voltage (Voc)	V	37.455	37.675	38.005
Short-circuit current (Isc)	А	5.52	5.52	5.57

STC·AM=1.5, Irradiance1000W/m², Operating Temperature:25°C

Mechanical

Cell array	11 (166/2) *5
Size	1000*900*3mm
Size of 46-piece box	1180*1680*1120mm
Front film	Lightweight high transparent polymer materials
Wind/snow pressure	2400mpa/5400mpa

Temperature coefficient

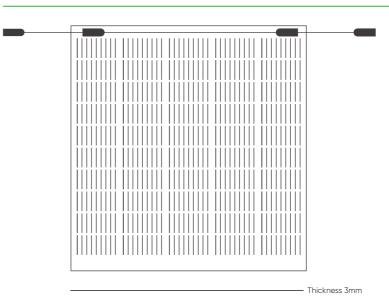
Battery nominal operating temperature	25±2°C
Current temperature coefficient (Isc)	+0.05%/°C
Voltage temperature coefficient	-0.32%/°C
Power factor (Pm)	-0.40%/°C

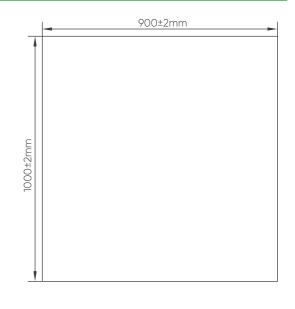
Back board colour	Black and white
Terminal block	Protection grade IP67
Cable	4mm²
Diode	2
Weight	3.12KG

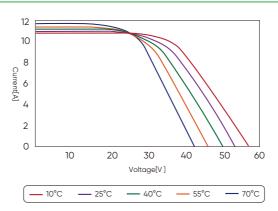
Working conditions

The largest system voltage	DC1500V(IEC)
The largest fuse rated current	20A
Operating temperature range	-40~+120℃
Connector	MC Compatible

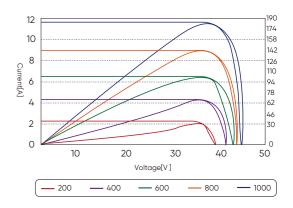
Dimension







Temperature curves of current and voltage at different temperatures



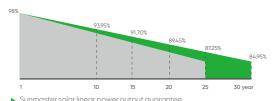
Curve of current and voltage/curve of power voltage under different irradiance

SunMaster 2

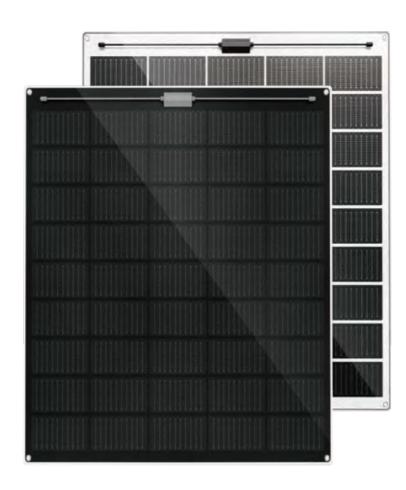
SM210-230W MFX

210-230W Monocrystalline high-efficiency cell flexible PV module

Quality Guarantee







210-230VV 21.5-23.1%

Product characteristics



Lightweight and ultra-thin design

The component weight is as light as 3.12kg in weight and as thin as 3mm, meeting the requirements of various low load projects.



Ultra high flexibility

With ultra-thin silicon chip and advanced organic polymer materials, the component can perfectly fit various curved roofs.



Easy installation

Customization

Due to convenience and quickness, the costs of installation and transport are areatly reduced.

Products can be customized to meet the needs of different application scenarios



Efficient and reliable

It is improving the battery conversion efficiency. The power generation performance is excellent under low light conditions.



<u>Plumbum</u> free environmental protection

Base on the concept of green environmental protection, the production process and materials achieve plumbum free

Long lasting and stable quality

- Through various long-term reliability tests
- The reliability of components is effectively ensured under EL test before and after lamination.
- ISO 9001,ISO 14001 and ISO 45001
- Fully automatic production line and the leading photovoltaic technology

Electrical Performance Parameter(STC)

Parameter Name	Unit	SMFX-210	SMFX-215	SMFX-220	SMFX-225	SMFX-230
Maximum power (Pm)	W	210W	165W	170W	170W	170W
Power Deviation	W	0~+5w	0~+5w	0~+5w	0~+5w	0~+5w
Optimal working voltage (Vm)	V	42.12	42.48	42.84-46.8	47.52	48.456
Optimal working current (Im)	А	5.155	5.23	5.305-4.892	4.901	4.908
Open-circuit voltage (Voc)	V	37.455	37.675	49.752-53.568	53.712	53.856
Short-circuit current (lsc)	А	5.52	5.545	5.57-5.179	5.212	5.246

STC·AM=1.5, Irradiance1000W/m², Operating Temperature:25°C

Mechanical

Cell array	12 (166/2) *6
Size	1100*1040*3mm
Size of 46-piece box	1280*1680*1260mm
Front film	Lightweight high transparent polymer materials
Wind/snow pressure	2400mpa/5400mpa

Temperature coefficient

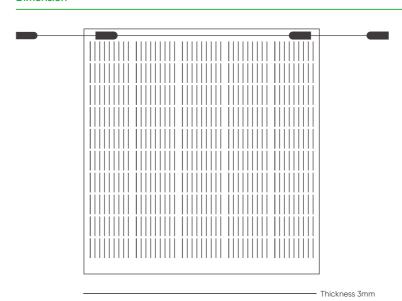
Battery nominal operating temperature	25±2℃
Current temperature coefficient (Isc)	+0.05%/°C
Voltage temperature coefficient	-0.32%/°C
Power factor (Pm)	-0.40%/°C

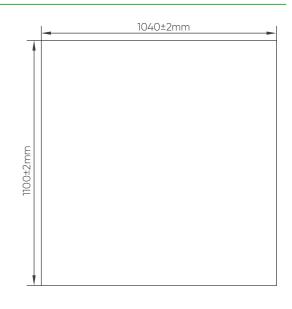
Back board colour	Black and white
Terminal block	Protection grade IP67
Cable	4mm²
Diode	3
Weight	3.8KG

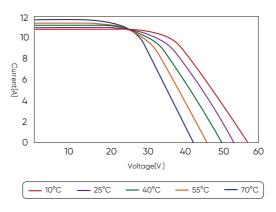
Working conditions

The largest system voltage	DC1500V(IEC)
The largest fuse rated current	20 <i>A</i>
Operating temperature range	-40~+120°C
Connector	MC Compatible

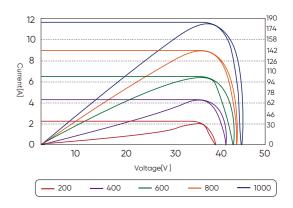
Dimension







Temperature curves of current and voltage at different temperatures



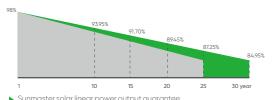
Curve of current and voltage/curve of power voltage under different irradiance

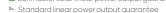
SunMaster 3

SM355-375W MFX

355-375W Monocrystalline high-efficiency cell flexible PV module

Quality Guarantee







355-375W 21.5-23.1%

Product characteristics



Lightweight and ultra-thin design



Ultra high flexibility



Efficient and reliable

It is improving the battery conversion efficiency. The power generation performance is excellent



Customization



Easy installation



Plumbum free environmental protection

Long lasting and stable quality

- Through various long-term reliability tests
- The reliability of components is effectively ensured under EL test before and after lamination.
- ISO 9001,ISO 14001 and ISO 45001
- Fully automatic production line and the leading photovoltaic technology

Parameter Name Unit SMFX-355 SMFX-360 SMFX-365 SMFX-370 Maximum power (Pm) W 355W 360W 365W 370W Power Deviation W 0~+5w 0~+5w 0~+5w Optimal working voltage (Vm) V 70.44 70.92 71.04 71.4 Optimal working current (Im) A 5.155 5.23 5.255 5.305 Open-circuit voltage (Voc) V 82.08 82.44 82.56 82.92 Short-circuit current (Isc) A 5.52 5.545 5.545 5.57							
Power Deviation W 0~+5w 0~+5w 0~+5w Optimal working voltage (Vm) V 70.44 70.92 71.04 71.4 Optimal working current (Im) A 5.155 5.23 5.255 5.305 Open-circuit voltage (Voc) V 82.08 82.44 82.56 82.92	Parameter Name	Unit	SMFX-355	SMFX-360	SMFX-365	SMFX-370	SMFX-375
Optimal working voltage (Vm) V 70.44 70.92 71.04 71.4 Optimal working current (lm) A 5.155 5.23 5.255 5.305 Open-circuit voltage (Voc) V 82.08 82.44 82.56 82.92	Maximum power (Pm)	W	355W	360W	365W	370W	375W
Optimal working current (Im) A 5.155 5.23 5.255 5.305 Open-circuit voltage (Voc) V 82.08 82.44 82.56 82.92	Power Deviation	W	0~+5w	0~+5w	0~+5w	0~+5w	0~+5w
Open-circuit voltage (Voc) V 82.08 82.44 82.56 82.92	Optimal working voltage (Vm)	V	70.44	70.92	71.04	71.4	78.36
A 550	Optimal working current (Im)	А	5.155	5.23	5.255	5.305	4.892
Short-circuit current (Isc) A 5.52 5.545 5.545 5.57	Open-circuit voltage (Voc)	V	82.08	82.44	82.56	82.92	89.28
	Short-circuit current (Isc)	А	5.52	5.545	5.545	5.57	5.179

STC·AM=1.5, Irradiance1000W/m², Operating Temperature:25°C

Mechanical

Wind/snow pressure	2400mpa/5400mpa
Front film	Lightweight high transparent polymer materials
Size of 46-piece box	1960*1680*1260mm
Size	1780*1040*3mm
Cell array	20 (166/2) *6

Temperature coefficient

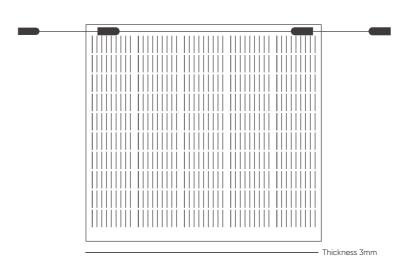
Battery nominal operating temperature	25±2°C
Current temperature coefficient (Isc)	+0.05%/°C
Voltage temperature coefficient	-0.32%/°C
Power factor (Pm)	-0.40%/°C

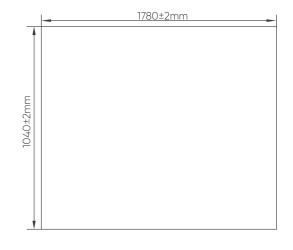
Back board colour	white
Terminal block	Protection grade IP67
Cable	4mm²
Diode	3
Weight	5.85KG

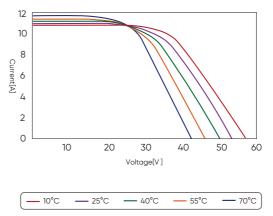
Working conditions

The largest system voltage	DC1500V(IEC)
The largest fuse rated current	20A
Operating temperature range	-40~+120°C
Connector	MC Compatible

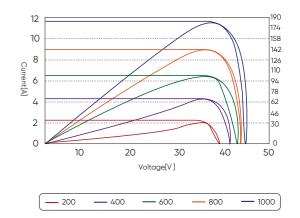
Dimension







Temperature curves of current and voltage at different temperatures



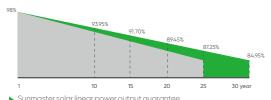
Curve of current and voltage/curve of power voltage under different irradiance

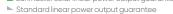


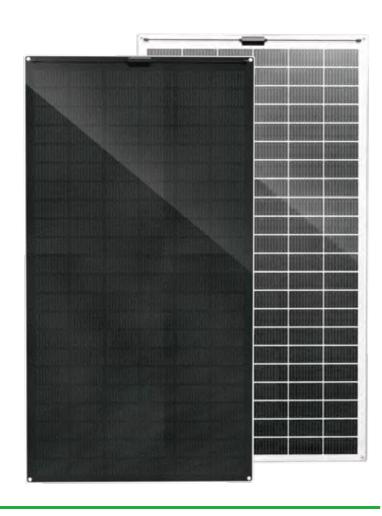
SM390-410W MFX

390-410W Monocrystalline high-efficiency cell flexible PV module

Quality Guarantee







390-410W 21.5-23.8%

Product characteristics



Lightweight and ultra-thin design



Ultra high flexibility



Efficient and reliable

It is improving the battery conversion efficiency. The power generation performance is excellent



Customization



Easy installation



Plumbum free environmental protection

Long lasting and stable quality

- Through various long-term reliability tests
- The reliability of components is effectively ensured under EL test before and after lamination.
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- Fully automatic production line and the leading photovoltaic technology

Electrical Performance Parameter(STC)

Parameter Name	Unit	SMFX-390	SMFX-395	SMFX-400	SMFX-405	SMFX-410
Maximum power (Pm)	W	390W	395W	400W	405W	410W
Power Deviation	W	0~+5w	0~+5w	0~+5w	0~+5w	0~+5w
Optimal working voltage (Vm)	V	77.22	77.616	78.012	78.408	86.196
Optimal working current (Im)	А	5.155	5.23	5.255	5.305	4.892
Open-circuit voltage (Voc)	V	89.892	90.288	90.684	91.08	98.208
Short-circuit current (Isc)	А	5.52	5.545	5.545	5.57	5.179

STC·AM=1.5, Irradiance1000W/m², Operating Temperature:25°C

Mechanical

Cell array	22 (166/2) *6
Size	1940*1040*3mm
Size of 46-piece box	2120*1680*1260mm
Front film	Lightweight high transparent polymer materials
Wind/snow pressure	2400mpa/5400mpa

Temperature coefficient

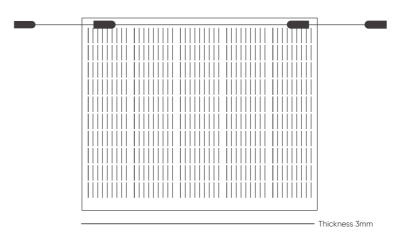
Battery nominal operating temperature	25±2 C
Current temperature coefficient (Isc)	+0.05%/°C
Voltage temperature coefficient	-0.32%/°C
Power factor (Pm)	-0.40%/℃

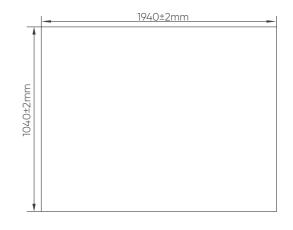
Back board colour	white
Terminal block	Protection grade IP67
Cable	4mm²
Diode	2
Weight	6.4KG

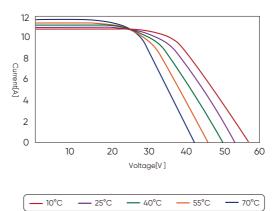
Working conditions

The largest system voltage	DC1500V(IEC)
The largest fuse rated current	20 <i>A</i>
Operating temperature range	-40~+120°C
Connector	MC Compatible

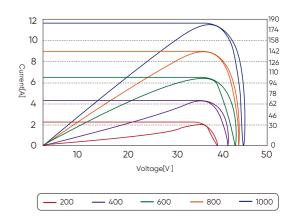
Dimension







Temperature curves of current and voltage at different temperatures



Curve of current and voltage/curve of power voltage under different irradiance

NEW Flexible Solar Panels fromSUNMASTER

pleased to introduce a new range of semi-flexible solar panels direct from the leading solar panel manufacturer SunMaster®.

These panels incorporate SunMaster's worldbeating other "back contact" solar cells that deliver up to 25% efficiency.

That means faster charging and more power delivered from less panel area which is ideal on board.







