

Products & Data Sheets

SPSI Solo Power
Special
Incorporation

FLEX 410W PANEL



Electrical Characteristics

Maximum Power (Pmax)	410W
Maximum Power Voltage(Vmp)	30.8V
Maximum Power Current(Imp)	13.16A
Open-circuit Voltage(Voc)	37.2V
Short-circuit Current(Isc)	13.81A
Module Efficiency(%)	20.46%
Operating Temperature	-40 °C to 85 °C
Maximum System Voltage	1500VDC
Maximum Series Fuse Rating	20 A

STC: Irradiance 1000W/m², module temperature 25°C, AM=1.5

Mechanical Characteristics

Cell Size	182×91mm
No. of cells	108
Module Dimensions	L:1735*W:1141*H:3 mm L:1735*W:1141*H:18 mm (J-Box included)
Weight	6.3kg
J-Box	IP 67
Output cables	4mm ²

Temperature Characteristics

NOCT(Nominal Operating Cell Temperature)	41 ± 2°C
Temperature Coefficient of Pmax	-0.38%/°C
Temperature Coefficient of Voc	-0.28%/°C
Temperature Coefficient of Isc	0.020%/°C

Flexible solar panels are thin and lightweight solar modules that can be easily bent. They are made from flexible materials such as plastic or metal, making them highly durable and resistant to bending or breaking.

The weight difference of thin-film models is about one-third (1/3) that of traditional silicon modules, which reduces the load on the building when installed on roofs. This can lead to cost savings on structural reinforcement work.

Flexible solar panels can be installed in various locations, including building exteriors, curved roofs, and aging buildings.

FLEX 520W PANEL



Electrical Characteristics

Maximum Power (Pmax)	520W
Maximum Power Voltage(Vmp)	40.3V
Maximum Power Current(Imp)	12.94A
Open-circuit Voltage(Voc)	48.4V
Short-circuit Current(Isc)	13.56A
Module Efficiency(%)	20.34%
Operating Temperature	-40 °C to 85 °C
Maximum System Voltage	1500VDC
Maximum Series Fuse Rating	20 A

STC: Irradiance 1000W/m² , module temperature 25°C , AM=1.5

Mechanical Characteristics

Cell Size	182×91mm
No. of cells	144
Module Dimensions	L:2246*W:1197*H:3 mm L:2246*W:1197*H:18 mm(J-Box included)
Weight	9.1kg
J-Box	IP 67
Output cables	4mm ²

Temperature Characteristics

NOCT(Nominal Operating Cell Temperature)	41 ± 2°C
Temperature Coefficient of Pmax	-0.38%/°C
Temperature Coefficient of Voc	-0.28%/°C
Temperature Coefficient of Isc	0.020%/°C

Flexible solar panels are thin and lightweight solar modules that can be easily bent. They are made from flexible materials such as plastic or metal, making them highly durable and resistant to bending or breaking.

The weight difference of thin-film models is about one-third ($\frac{1}{3}$) that of traditional silicon modules, which reduces the load on the building when installed on roofs. This can lead to cost savings on structural reinforcement work.

Flexible solar panels can be installed in various locations, including building exteriors, curved roofs, and aging buildings.

BALCONY SOLAR SYSTEM



Electrical Characteristics

Maximum Power (Pmax)	210W
Maximum Power Voltage(Vmp)	16.2V
Maximum Power Current(Imp)	13.6A
Open-circuit Voltage(Voc)	19.4V
Short-circuit Current(Isc)	13.72A
Module Efficiency(%)	19.26%
Operating Temperature	-40 °C to 85 °C
Maximum System Voltage	600VDC
Maximum Series Fuse Rating (at temperature 25°C , AM=1.5)	15 A

Mechanical Characteristics

Cell Size	182×91mm
No. of cells	56
Module Dimensions	L:1380*W:790*H:3 mm L:1380*W:790*H:18 mm (J-Box included)
Weight	3.4kg
J-Box	IP 67
Output cables	4mm ²

Balcony Solar Systems are the ultimate solution for reducing carbon emissions and energy costs. They are suitable for apartment residents and homeowners, seamlessly integrating into any balcony or outdoor space with a modern design.

Equipped with high-efficiency solar panels that provide enough power for household use, balcony solar systems also include robust battery storage systems to store excess energy for use during peak hours or at night, ensuring a reliable energy source at all times.

One of the standout features of balcony solar systems is their user-friendly interface, which allows real-time monitoring of energy production and consumption. Users can easily track energy usage, adjust settings, and receive notifications when it's time to recharge the battery.

For those looking to enhance their energy savings further, balcony solar systems offer customizable options, such as adding more solar panels or expanding battery storage capacity. This means the system can be tailored to specific energy needs and budgets.

In summary, balcony solar systems provide an innovative and practical solution for reducing environmental impact and saving on energy bills. With high-efficiency solar panels, powerful battery storage systems, and a user-friendly interface, they are an excellent choice for eco-conscious homeowners seeking positive change.

PANEL FOR RV



Electrical Characteristics

Maximum Power (Pmax)	100W	200W
Maximum Power Voltage(Vmp)	19.4V	20.1V
Maximum Power Current(Imp)	5.20A	10.02A
Open-circuit Voltage(Voc)	23.5V	23.9V
Short-circuit Current(Isc)	5.51A	10.74A
Module Efficiency(%)	19.2%	19.26%
Operating Temperature	-40 °Cto 85 °C	
Maximum System Voltage	600VDC	
Maximum Series Fuse Rating	15 A	

STC:Irradiance 1000W/m² , module temperature 25°C , AM=1.5

Mechanical Characteristics

Cell Size	166×83mm	182×91mm
No. of cells	36	56
Module Dimensions	L:1093*W:582*H:3 mm	L:1380*W:790*H:3 mm
Weight	2.2kg	3.7kg
J-Box	IP 67	
Output cables	4mm ²	

The PANEL FOR RV solar panel is suitable for various applications, including RVs, trucks, refrigerated vehicles, and boats.

It is flexible, lightweight, and has a high power generation efficiency per unit area, making it easy to transport and carry.

Installation is straightforward, as it can be secured using structural adhesives or screws without the need for brackets.