Specco2
BIPV Solutions
Integrated Photovoltaic

PART 1

Flex PV Panels

Installation pain points

Conventional Installation

Disadvantages

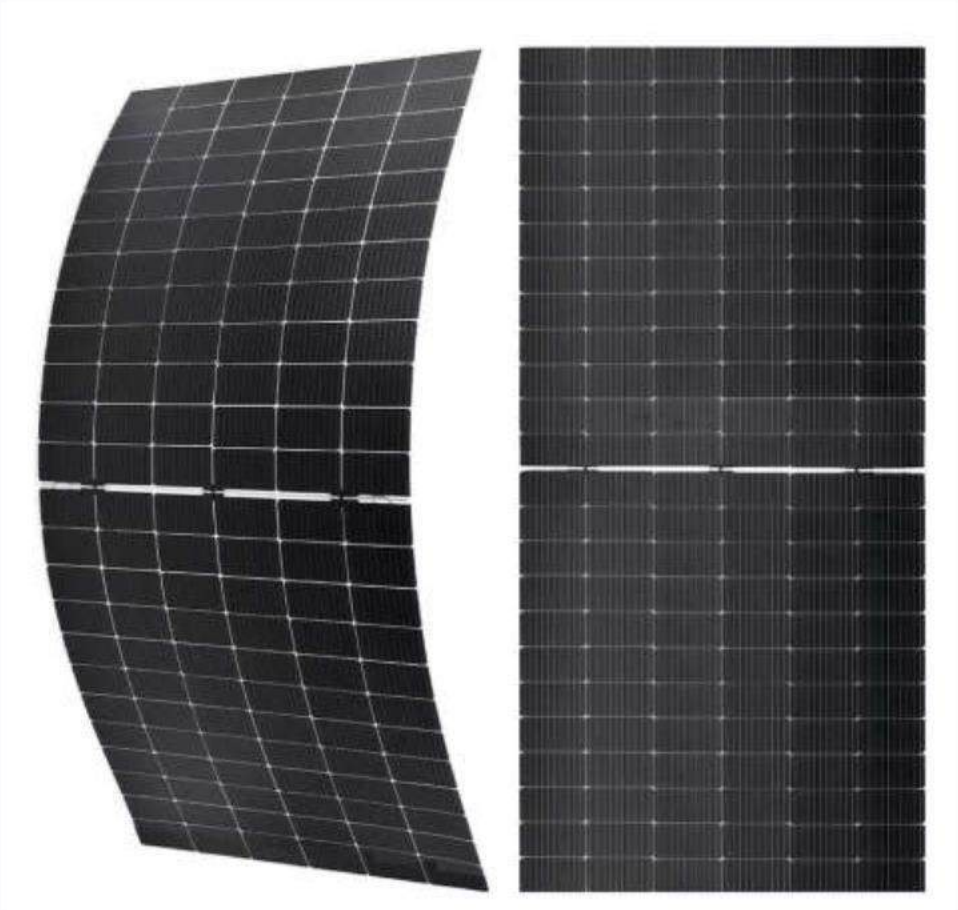
1. Damage to the roof structure
2. Destroy the waterproof layer on the roof
3. Installation cost is high
4. High maintenance costs
5. Aesthetics are poor

Make up for the shortcomings

Flexible solar solutions

1. lightweight panels, 1/3 of traditional weight
2. Simple and easy-to-install
3. high-efficiency solar cells
4. Adapt to different surfaces and shapes

Flex Panels series

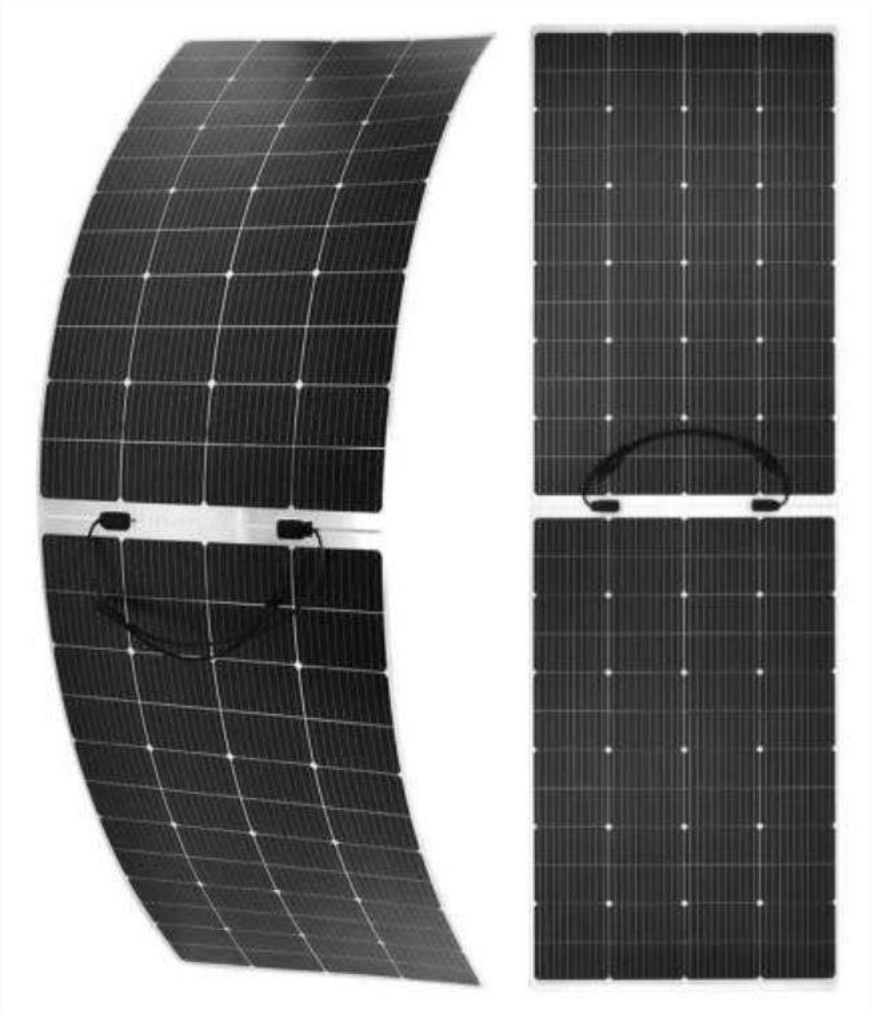


520W

Electrical Characteristics	
Maximum power (Pmax/W)	520
Open circuit voltage (Voc/V)	49.3
Voltage at maximum power (Vmp/V)	41.8
Short circuit current (Isc/A)	13.32
Current at maximum power (Imp/A)	12.45
Temperature coefficient of Pmax	-0.38%/℃
Temperature coefficient of Voc	-0.36%/℃
Temperature coefficient of Isc	0.07%/℃
Power output tolerance	0~3%
Maximum system voltage	1000V VDC(IEC)
Maximum series fuse	25A
Operational Temperature	-40~85℃

Specifications	
Cell orientation	Mono 144(6×24)
Weight	10Kg
Dimension	2327*1122*18.8mm
Output cable	$4mm^2$
Junction box	IP68, 3 diodes
Connector	MC4
Cable length(Including Connector)	270mm

Flex Panels series



430W

Electrical Characteristics	
Maximum power (Pmax/W)	430
Open circuit voltage (Voc/V)	41.4
Voltage at maximum power (Vmp/V)	34.5
Short circuit current (Isc/A)	13.22
Current at maximum power (Imp/A)	12.47
Temperature coefficient of Pmax	-0.38%/℃
Temperature coefficient of Voc	-0.36%/℃
Temperature coefficient of Isc	0.07%/℃
Power output tolerance	0~3%
Maximum system voltage	1000V VDC(IEC)
Maximum series fuse	25A
Operational Temperature	-40~85℃

Specifications	
Cell orientation	Mono 120(6×20)
Weight	8.3Kg
Dimension	1955*1122*18.8mm
Output cable	$4mm^2$
Junction box	IP68, 3 diodes
Connector	MC4
Cable length(Including Connector)	270mm

PART 2

Applications

Flex Panels Roof Solar

Flex Panels Roof Solar

PART 3

BIPV Panels

Industry pain points

BAPV

Building Attached Photovoltaic

Disadvantages

1. building appearance
2. Photovoltaic systems increase building loads
3. Affects the overall resistance of the building
4. Installation scenarios are limited

BIPV

Building Integrated Photovoltaic

Make up for the shortcomings of BAPV

1. Reduce duplication of construction and cost
2. Reduce building energy consumption
3. optimized integrated system for construction
4. Aesthetics

BIPV Façade Panels

Colorful products guarantee both beautiful architecture and high power generation

Anti-glare surface

Various installation methods

Long material life and high reliability

Installation meets building grade mechanical requirements

Customization

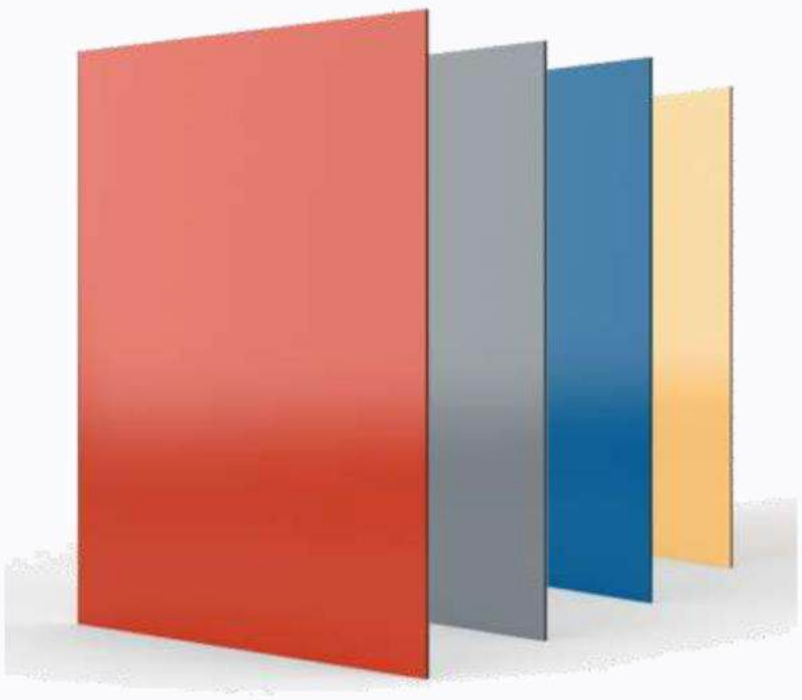
BIPV Panels

120-150W/㎡

Product parameters					
Solar cells	158.75mm（182mm/210mm optional）				
Solar panels size	1200*600mm（customizable）				
Thickness of glass	4+4mm（Optional）				
Solar panels weight	14.8kg				
Maximum Power（Pmax/W）	85	90	95	100	105
Voltage at Pmax（Vmpp /V）	10.8	11.2	11.6	12.0	12.4
Current at Pmax（Impp /A）	7.89	8.03	8.19	8.34	8.48
Open-Circuit Voltage （Voc /V）	13.3	13.8	14.3	14.8	15.3
Short-Circuit Current（Isc /A）	8.57	8.74	8.90	9.05	9.19
Module Efficiency η（%）	12.4	13.2	13.9	14.6	15.3

BIPV Panels

60-120W/㎡



Product parameters						
Solar cells	158.75mm（182mm/210mm optional）					
Solar panels size	1200*600mm（customizable）					
Thickness of glass	4+4mm（Optional）					
Solar panels weight	14.8kg					
Color	Bule series			Green series		
Maximum Power（Pmax/W）	80	85	90	85	90	95
Voltage at Pmax（Vmpp /V）	11.6	12.0	12.4	11.6	12.0	12.4
Current at Pmax（Impp /A）	6.90	7.08	7.26	7.33	7.50	7.66
Open-Circuit Voltage （Voc /V）	14.1	14.6	15.1	14.1	14.6	15.1
Short-Circuit Current（Isc /A）	7.22	7.41	7.60	7.67	7.86	8.02
Module Efficiency η（%）	11.7	12.4	13.1	12.4	13.1	13.8
The power of different colors is different, please refer to the actual proofing.						

BIPV Balconies

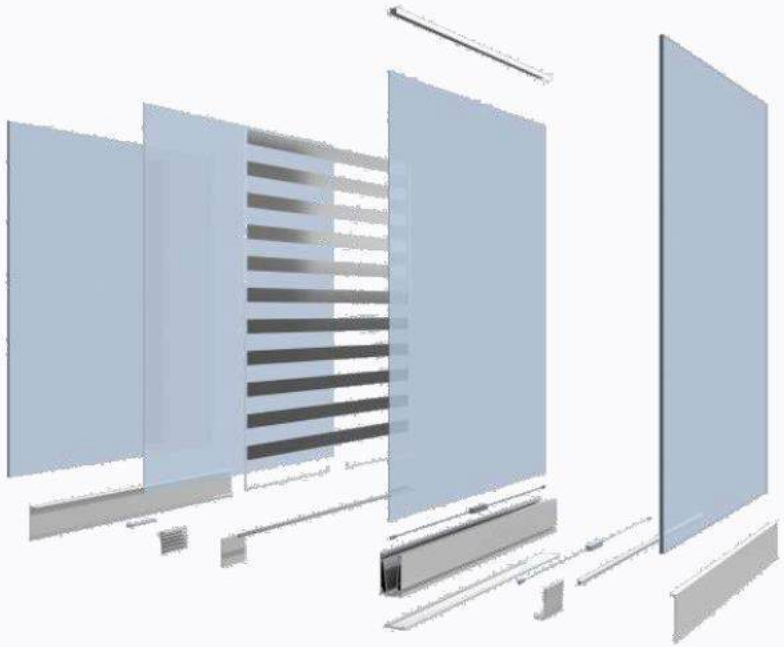
Product parameters				
Solar cells	158.75mm（182mm/210mm optional）			
Solar panels size	1000*1200㎜			
Thickness of glass	8+8㎜（Optional）			
Maximum Power（Pmax/W）	80	85	90	95
Voltage at Pmax（Vmpp /V）	17.4	17.6	18.4	18.8
Current at Pmax（Impp /A）	4.60	4.83	4.89	5.05
Open-Circuit Voltage （Voc /V）	20.5	21	21.5	22.0
Short-Circuit Current（Isc /A）	5.15	5.22	5.30	5.37

Good anti-occlusion effect
Fully parallel design

Beautiful appearance
Flexible and adjustable cell width Meet different visual effects Better color consistency

easy installation
Compatible with various guardrail installation methods

BIPV Balconies



Adjustable light transmittance By adjusting the number of cells

Beautiful appearance Flexible and adjustable cell width Meet different visual effects Better color consistency

easy installation Compatible with various guardrail installation methods

Good anti-occlusion effect Fully parallel design

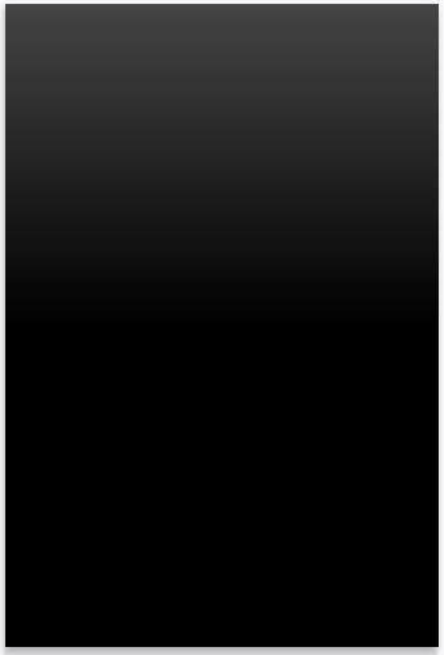
Green and efficient Shingled process ensures high power density

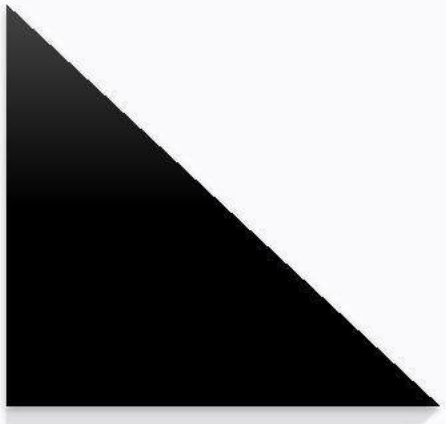
BIPV Roof Tiles

75-90W

Product parameters			
Solar cells	166mm		
Solar panels size	1140*410*30mm		
Thickness of glass	2+2mm（Optional）		
Solar panels weight	4.6kg		
Maximum Power（Pmax/W）	70	75	80
Voltage at Pmax（Vmpp /V）	18.70	19.00	19.30
Current at Pmax（Impp /A）	3.70	3.90	4.10
Open-Circuit Voltage （Voc /V）	22.50	22.80	23.00
Short-Circuit Current（Isc /A）	4.00	4.20	4.40
Module Efficiency η（%）	14.9	16.00	17.10

BIPV Roof Tiles





Type	A	B	C
Size	1310*670*30	987*670*30	670*670*30
Watts	155-165W	120-130W	15-17W

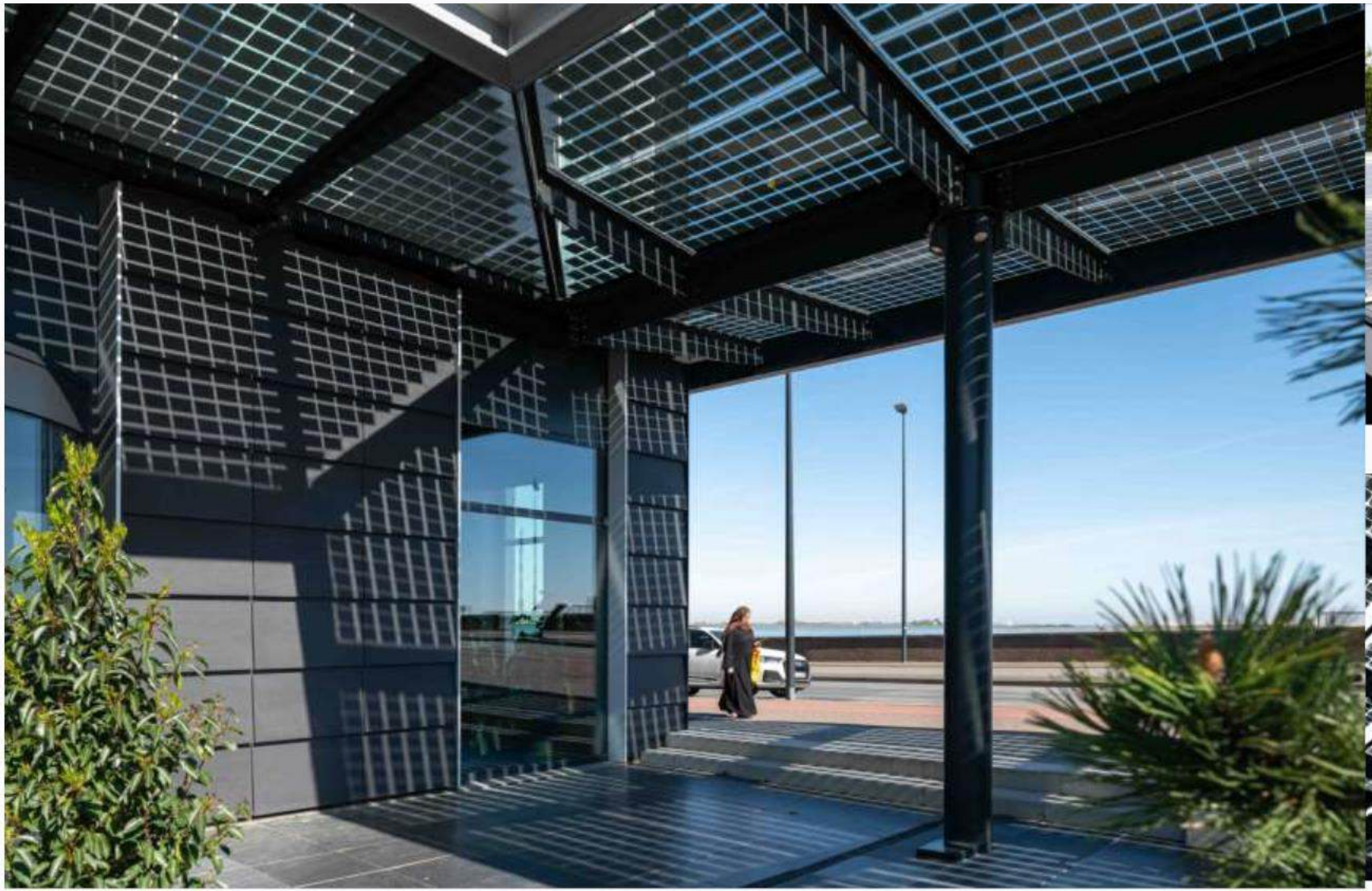
PART 4

Applications

BIPV Façade Panels

BIPV Façade Panels

BIPV Integrated PV design



BIPV Façade Panels

BIPV Façade Panels

Under construction

After completion

BIPV Balconies

BIPV Roof Tiles