



## Terracotta Coloured BIPV Panel-125W

Innovative Building-integrated photovoltaics (BIPV) are photovoltaic materials that can be a better alternative to conventional building materials in parts of the building envelope to maintain the design sense of the building.

### New Building Materials

Fashion Aesthetic Photovoltaic technology perfect combination of architecture.

### Fashion

Optimizing the mainstream material textures of the building materials market, grasping the annual fashion colors, and becoming the trend leader of photovoltaic building materials.

### Aesthetic

Class A fire protection, can be used as roof tiles, window, curtain wall, etc., perfectly integrated into the architectural design.

### Strength



A variety of colors available



Aesthetics and practicality



Construction-grade materials with the same life span as the building



Surface texture with low reflection is easy to clean



High strength, light, corrosion resistant



Transmittance customization

# Terracotta Colored BIPV Panel

## ELECTRICAL PERFORMANCE

Electrical parameters at Standard Test Conditions (STC)

Module type		ESM-125 RED		
Power output	Pmax	W	125	
Power output tolerances	Pmax	W	0-5	
Voltage at Pmax	Vmpp	V	30.02	
Current at Pmax	Impp	A	4.17	
Open-circuit voltage	Voc	V	35.75	
Short-circuit current	Isc	A	4.43	

STC: 1000W/m<sup>2</sup> irradiance, 25°C cell temperature, AM1.5g spectrum according to EN 60904-3.  
Average relative efficiency reduction of 3.0% at 200W/m<sup>2</sup> according to EN 60904-1.

Electrical parameters at Nominal Operating Cell Temperature (NOCT)

Power output	Pmax	W	94
Voltage at Pmax	Vmpp	V	28.2
Current at Pmax	Impp	A	3.36
Open-circuit voltage	Voc	V	33.95
Short-circuit current	Isc	A	3.57

NOCT: Open-circuit module operation temperature at 800W/m<sup>2</sup> irradiance, 20°C ambient temperature, 1m/s wind speed.

## OPERATING CONDITIONS

Max. system voltage	1500VDC
Max. series fuse rating	20A
Operating temperature range	-40°C- 85°C
Max. static load, front (e.g., snow)	5400Pa
Max. static load, back (e.g., wind)	2400Pa
Max. hailstone impact (diameter / velocity)	25mm & 23m/s

## THERMAL CHARACTERISTICS

Nominal operating cell temperature	NOCT	°C	45 +/- 2
Temperature coefficient of Pmax	γ	%/°C	-0.36
Temperature coefficient of Voc	βVoc	%/°C	-0.30
Temperature coefficient of Isc	αIsc	%/°C	0.05

## CONSTRUCTION MATERIALS

Glass	3.2mm
Cell	182*91mm
Encapsulating material	POEO EVA and back sheet
Junction box (protection degree)	≥IP67
Cable	300mm / 4mm <sup>2</sup> / Also can be Customized
connector (	MC4 /IP67

## UNIT:mm

## GENERAL CHARACTERISTICS

Dimensions	1263*770*30mm
Weight	10kgs

## QUALIFICATIONS & CERTIFICATES

IEC 61215, IEC 61730, ISO 9001:2015, ISO 14001:2015, ISO 45001: 2018.

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