



# 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



Surface texture with low reflection is easy to clean



Aesthetics and practicality



High strength, light, corrosion resistant



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



Transmittance customization

# **Terracotta Colored BIPV Panel**

#### **ELECTRICAL PERFORMANCE**

#### Electrical parameters at StandardTest 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	Α	4.17
Open-circuit voltage	Voc	V	35.75
Short-circuit current	Isc	Α	4.43

STC: 1000W/m2 irradiance, 25°C cell temperature, AM1.5g spectrum according to EN 60904-3.

Average relative efficiency reduction of 3.0% at 200W/m2 according to EN 60904-1.

Electrical parameters Temperature (NOCT)		Operating	Cell
remperature (11001)			
Dower output	Pmax	W	9.

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

NOCT: Open-circuit module operation temperature at 800W/m2 irradiance, 20°C ambient temperature, 1m/s wind speed.

THERMAL CHARACTERISTICS

#### **OPERATING CONDITIONS**

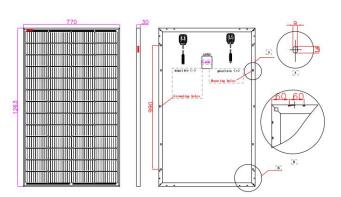
Max. system voltage	1500VDC
Max. series fuse rating	20A
Operating temperature range	-40°C- 85°C
Max. static load, front (e.g., snow)	5400Pa
Max. static load, back (e.g., wind)	2400Pa
Max. hailstone impact (diameter / velocity)	25mm & 23m/s

Nominal operating cell temperature	NOCT	°C	45 +/- 2
Temperature coefficient of Pmax	γ	%/°C	-0.36
Temperature coefficient ofVoc	βVoc	%/°C	-0.30
Temperature coefficient of Isc	αlsc	%/°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 / 4mm² / Also canbe 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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