TEG

# Solar Tiles

## Innovative Integration of Photovoltaic and Roofs

Replace conventional tiles, widely used on public buildings and multi-functional buildings.

### Lighter and Stronger

Reduced roof load

(about 30% of weight of conventional tiles)

Double-strength glass

(about 3 times as strong as conventional tiles)

### Safe, Reliable and Durable

Water-, fire-, and wind-resistant

Ventilation design

Same lifespan as building materials

### High Energy Yield, Low Degradation

Trinasolar's high-efficiency cells

High power output and low degradation

Added benefit of energy generation

### Easy Installation and Maintenance

Seamless incorporation into roof system

Modular construction assembly

Anti-dust frame design

### Aesthetic Roofing

Customizable colors and patterns

Optional layout designs

The integration of solar with building aesthetics

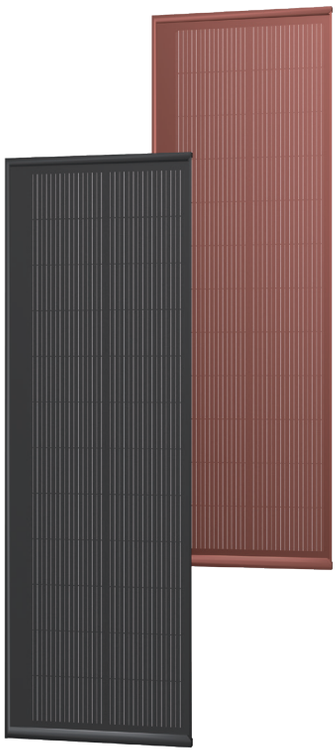
**Products and System Certifications**

IEC61215/IEC61730
GB/T 36584 / GB 8624
ISO9001: Quality Management System

Trinasolar Evergreen

# TEG Solar Tiles

PRODUCT: TEB-NEGA2CD.45, TEB-NEGA2CD.48
POWER RANGE: 100-110W, 80-90W



## PRODUCT SPECIFICATION

| | |
|---|---|
| Module Dimensions | L1350*W440*D27.5mm (L53.15*W17.32*D1.08 inches) |
| Installed Dimensions | L1343*W400mm (L52.87*W15.75 inches) |
| Product Weight | 7.65kg (16.87 lb) |
| Solar Cells | 210R N-type TOPCon Monocrystalline |
| Front Glass | 2.0mm (0.08 inches), High Transmission / Glazed Heat Strengthened Glass |
| Back Glass | 2.0mm (0.08 inches), Heat Strengthened Glass |
| Frame | Anodized Aluminum Alloy / Fluorocarbon Coated Aluminum Alloy |
| Connector | TS4 Plus / MC4 / Other |
| Packaging Configuration | Modules per box:36 pieces<br>Modules per 40'container:2304 pieces |

## ELECTRICAL DATA (STC)

| Module Color | Black | | | Clay | | |
|---|---|---|---|---|---|---|
| Peak Power Watts -$P_{MAX}$ (Wp) | 100 | 105 | 110 | 80 | 85 | 90 |
| Power Tolerance -$P_{MAX}$ (W) | ±5 | | | | | |
| Maximum Power Voltage -$V_{MPP}$ (V) | 7.0 | 7.4 | 7.7 | 7.0 | 7.3 | 7.7 |
| Maximum Power Current -$I_{MPP}$ (A) | 14.23 | 14.29 | 14.35 | 11.51 | 11.64 | 11.76 |
| Open Circuit Voltage -$V_{OC}$ (V) | 8.2 | 8.5 | 8.8 | 8.1 | 8.5 | 8.8 |
| Short Circuit Current -$I_{SC}$ (A) | 15.16 | 15.22 | 15.28 | 12.37 | 12.51 | 12.65 |
| Module Efficiency ηm (%) | 16.8 | 17.7 | 18.5 | 13.5 | 14.3 | 15.2 |
| Installed Efficiency ηm (%) | 18.6 | 19.5 | 20.5 | 14.9 | 15.8 | 16.8 |

STC(Standard Test Conditions): Air Mass AM1.5, Irrdiance1000W/㎡, Cell Temperature25℃ / Measuring tolerance: ±3

## OPERATING CONDITION

| | |
|---|---|
| Operational Temperature | -40~+85℃ |
| Maximum System Voltage | 1500V DC (IEC) |
| Max Series Fuse Rating | 30A |
| Max Front / Back Static Mechanical Load | +5400Pa/-2400Pa |
| Hail Resistance Test | Φ25mm | Velocity 23m/s |
| Wind Load Resistance Performance | Withstand Category 15 Typhoon |
| Burning Behavior Class | Class A |

## TEMPERATURE RATINGS

| | |
|---|---|
| NOCT (Nominal Operating Cell Temperature) | 43℃ (±2℃) |
| Temperature Coefficient of $P_{MAX}$ | -0.29%/℃ |
| Temperature Coefficient of $V_{OC}$ | -0.24%/℃ |
| Temperature Coefficient of $I_{SC}$ | 0.04%/℃ |

## WARRANTY

| |
|---|
| 10 Years Product Workmanship Warranty |
| 25 Years Power Warranty |
| 1% First Year Degradation |
| 0.4% Annual Power Attenuation |

Please refer to product warranty for details

Trinasolar Evergreen

CAUTION: READ USER MANUAL BEFORE USING THE PRODUCT

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