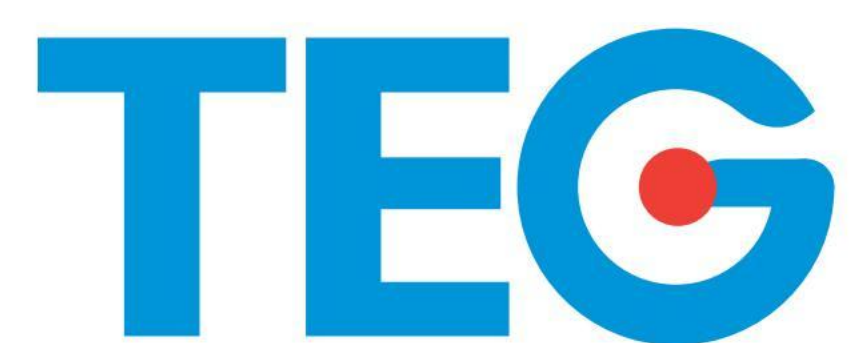




Solar Tiles

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)



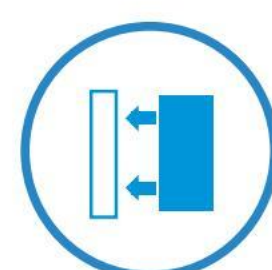
Safe, Reliable and Durable

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

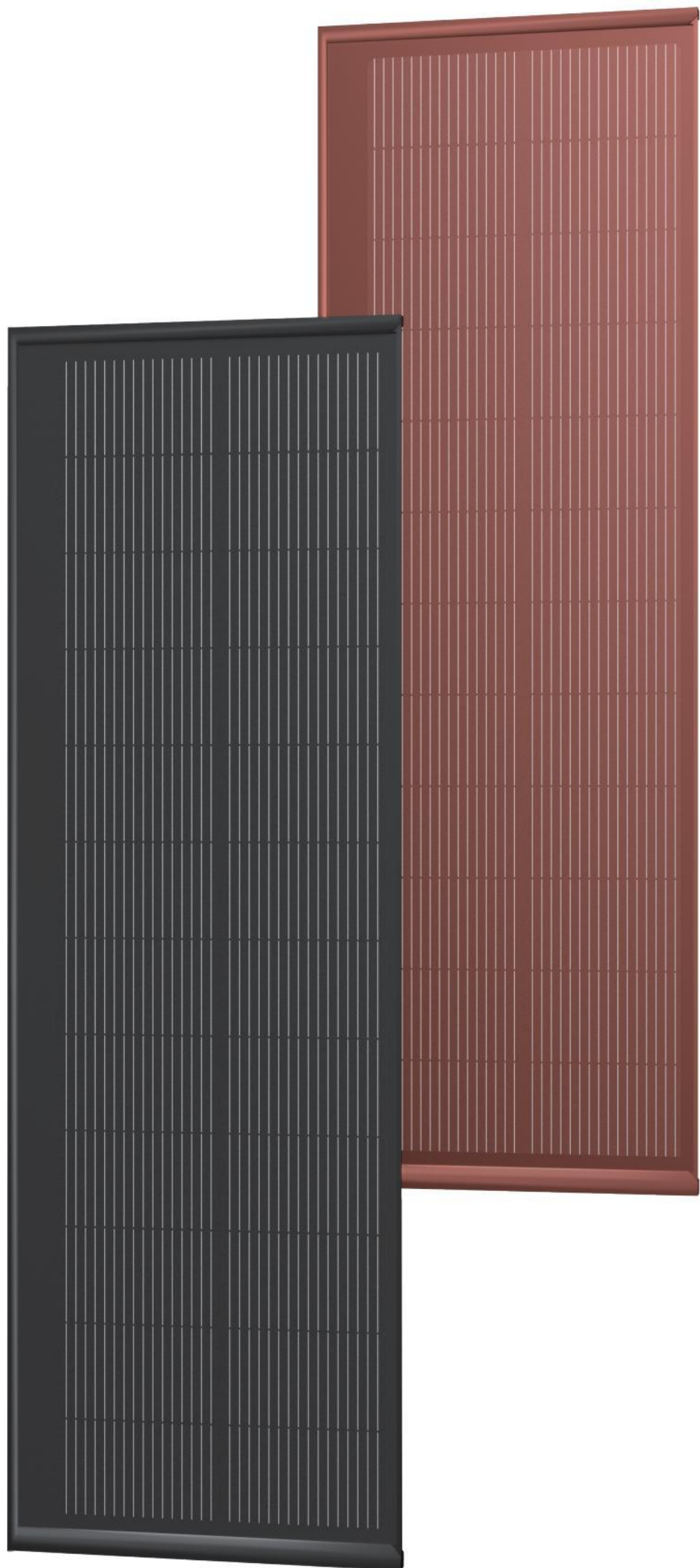
Products and System Certifications



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

Trinasolar Evergreen

PRODUCT SPECIFICATION



TEB-NEGA2CD		TEB-NEAA2CD
Module Dimensions	L1350*W440*D27.5mm (L53.15*W17.32*D1.08 inches)	L1350*W440*D30mm (L53.15*W17.32*D1.18 inches)
Installed Dimensions	L1343*W400mm (L52.87*W15.75 inches)	
Product Weight	7.65kg (16.87 lb)	11.65kg (25.68 lb)
Solar Cells	210R N-type TOPCon Monocrystalline	
Front Glass	2.0mm (0.08 inches) , High Transmission / Glazed Heat Strengthened Glass	3.2mm (0.13 inches), High Transmission / Glazed Heat Strengthened Glass
Back Glass	2.0mm (0.08 inches), Heat Strengthened Glass	3.2mm (0.13 inches), Heat Strengthened Glass
Frame	Anodized Aluminum Alloy / Fluorocarbon Coated Aluminum Alloy	
Connector	TS4 Plus / MC4 / Other	
Packaging Configuration	Modules per box: 36pieces Modules per 40'container: 2304pieces	Modules per box: 33pieces Modules per 40'container: 2112pieces

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)	6.9	7.2	7.5	6.9	7.2	7.6
Maximum Power Current -I _{MPP} (A)	14.43	14.52	14.61	11.68	11.77	11.86
Open Circuit Voltage -V _{OC} (V)	8.8	8.9	9.0	8.5	8.6	8.7
Short Circuit Current -I _{SC} (A)	14.88	14.93	14.98	12.08	12.15	12.22
Module Efficiency η _m (%)	16.8	17.7	18.5	13.5	14.3	15.2
Installed Efficiency η _m (%)	18.6	19.5	20.5	14.9	15.8	16.8

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

OPERATING CONDITION

Operational Temperature	-40~+70℃
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

