

BRONZE SOLAR

BIPV (Building Integrated Photovoltaic)

Address: Abundance Solar Panels Industries – LLC Plot No 7-8, KHIA5, KEZAD, Abu Dhabi, UAE

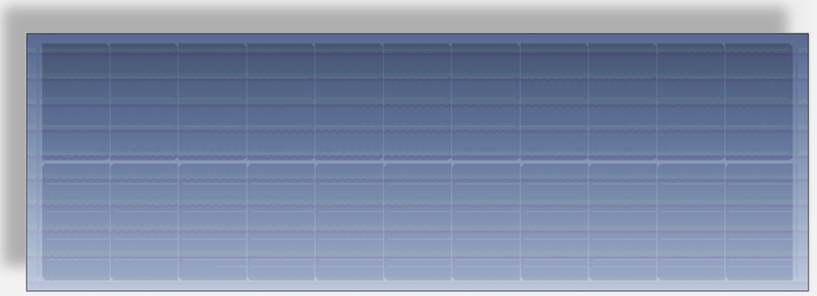
ABS-Solar Roof Tiles

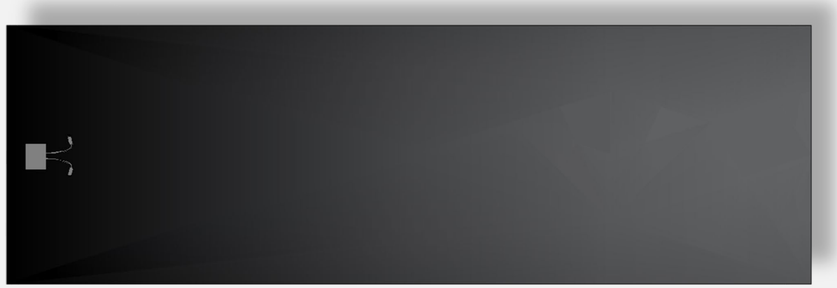
ENGINEERING DRAWINGS & TECHNICAL PARAMETERS

BRONZE SOLAR

Technical Parameters	
Maximum Rating Power (Pmax)	105 wp
Open Circuit Voltage(Voc)	16.45 V
Maximum Power Voltage (Vmp)	13.97 V
Short Circuit Current (Isc)	7.93 A
Maximum Power Current (Imp)	7.65 A
Module Efficiency (EFF)(%)	20.66 %
Customized color options(Grey & Red) -Power out put up to 90% of actual.	

Mechanical Data	
Solar Cell	Topcon 182.2 x 105 mm G12R ,16BB
Dimensions	1210 mm x 420 mm x 7.5 mm (Size can be Customized)
Weight	12 kg / 26.45 lbs.(±3%)
Front Glass	3.2 mm, Low Iron,Tempered Glass with color coat
Cell Encapsulation	EPE(Expanded polyethylene) & EVA (Ethylene-Vinyl-Acetate) or Black EVA
Back Glass	4.0 mm Semi Tempered Black Glass
Frame	Anodized Aluminum Alloy Type 6005T6
Junction Box	IP68, 1500VDC, 1 Bypass Diodes- 400mm (Cable length can be customized)







OPERATING CONDITION

Mechanical Load	5400 Pa
Maximum System Voltage	1500VDC
Series Fuse Rating	25 A
Operating Temperature	-40 to 85 °C
Safety application class	Class II
Fire Rating	Class A

TEMPERATURE CHARACTERISTICS

Nominal Module Operating Temperature	43°C ± 2°C
Temperature Coefficient of Isc	+0.05 % / °C
Temperature Coefficient of Voc	-0.25 % / °C
Temperature Coefficient of Pmax	-0.30 % / °C

Address: Abundance Solar Panels Industries – LLC Plot No 7-8, KHIA5, KEZAD, Abu Dhabi, UAE