

BRONZE SOLAR

BIPV (Building Integrated Photovoltaic)

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

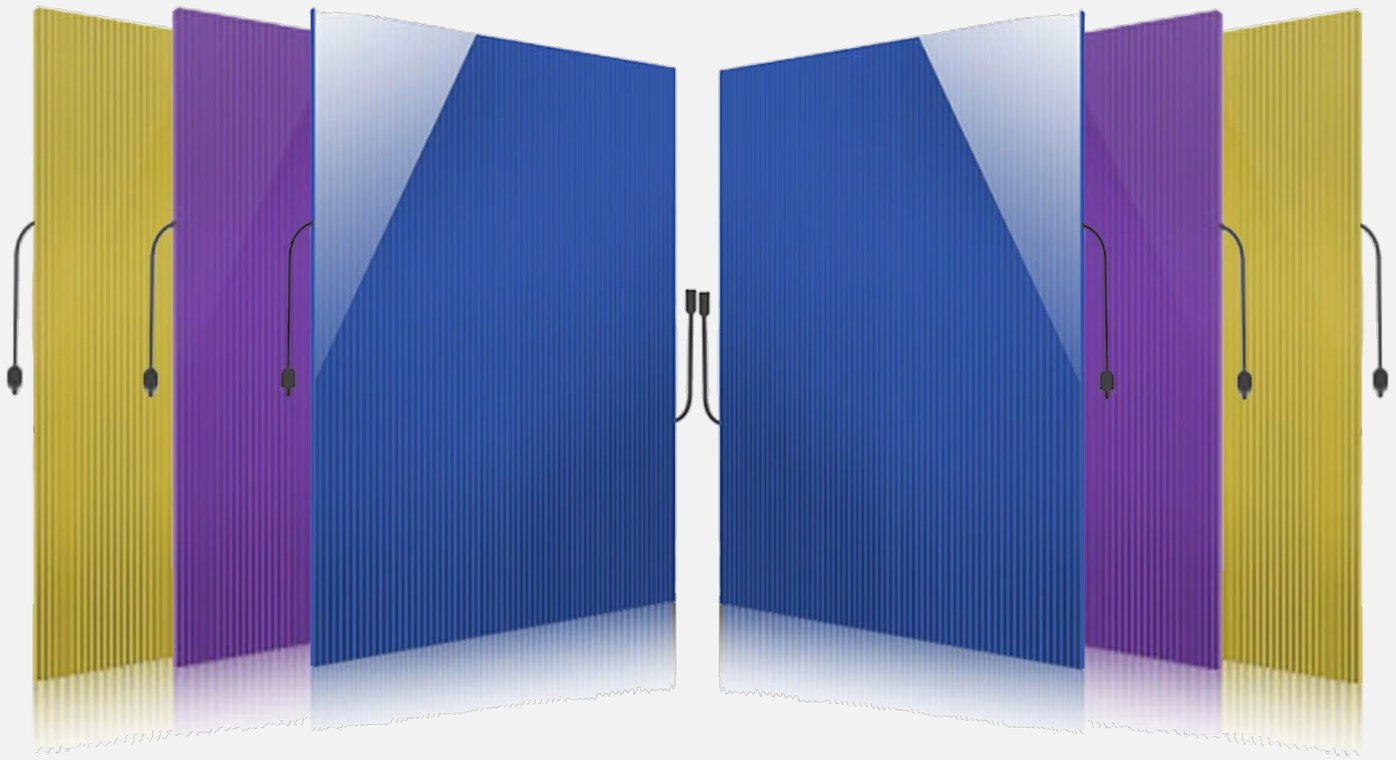
ABS-Colored BIPV Panels

ENGINEERING DRAWINGS & TECHNICAL PARAMETERS

BRONZE SOLAR

Technical Parameters	Option1	Option2
Maximum Rating Power (Pmax)	520 wp	460 wp
Open Circuit Voltage(Voc)	40.39 V	35.90 V
Maximum Power Voltage (Vmp)	34.02 V	30.11 V
Short Circuit Current (Isc)	15.83 A	15.83 A
Maximum Power Current (Imp)	15.34 A	15.34 A
Module Efficiency (EFF)(%)	23.59 %	23.22 %
Customized Size and color options -Power out put up to 60-80% of actual.		

Mechanical Data		
Solar Cell	Topcon 182.2 x 105 mm G12R ,16BB	
Dimensions	1954 mm x 1128 mm x 7.5 mm	1756 mm x 1128 mm x 7.5 mm
Weight	42 kg / 92.59 lbs.(±3%)	38 kg / 83.77 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	NA	
Junction Box	IP68, 1500VDC, 3 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

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