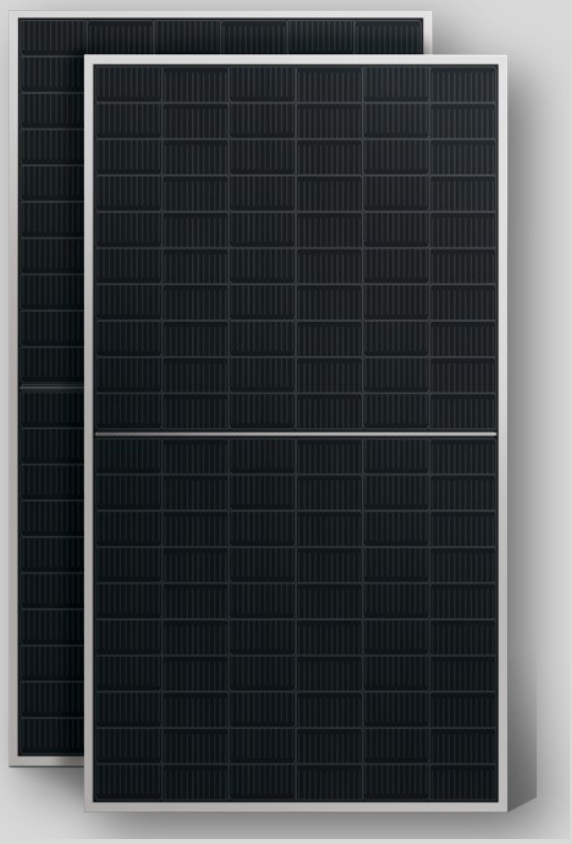
ABS-132GTS-M10
540W – 560W
TOPCon Half-Cut PV Module
Glass/ Transparent Back sheet-Silver Frame

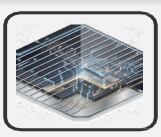


560W MAXIMUM POWER OUTPUT

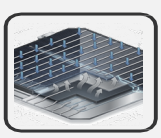
0 to+5W POSITIVE POWER SORTING

23.64% MAXIMUM EFFICIENCY

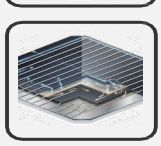
KEY FEATURES



HIGH POWER DENSITY
Module efficiency up to 23.64% at STC



MECHANICAL TEST LOADS
Front: 5,400 Pa. Rear: 2,400 Pa.
Subject to specified mounting configuration.



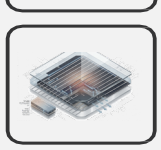
TOPCon CELL TECHNOLOGY
Half-cut cells with 16-busbar interconnection



BIFACIAL POWER GENERATION
Rear irradiance can increase output.

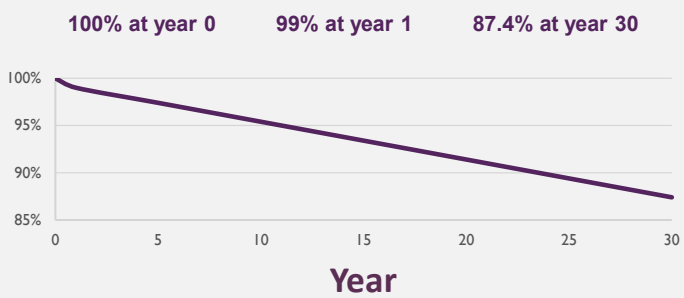


TEMPERATURE PERFORMANCE
Pmax temperature coefficient: −0.30%/°C.



GLASS / BACK SHEET CONSTRUCTION
3.2 mm front glass and Transparent rear Back sheet.

30-YEAR LINEAR POWER WARRANTY



30-year linear power warranty
99% at year 1 · 87.4% at year 30

Maximum degradation: 1% in year 1, then 0.40 percentage points/year. Subject to limited warranty terms.

15-year product warranty
Covers defects in materials and workmanship.

THE IDEAL SOLUTION FOR



STANDARDS and CERTIFICATIONS

IEC 61215 | IEC 61730 | IEC 61701 | IEC 62716 | IEC 60068-2-68

UL 61730 | MCS | CEC | ISO 9001 | ISO 14001 | ISO 45001

ADVANTAGES

MADE IN UAE
Manufactured in Abu Dhabi, United Arab Emirates.

A RELIABLE INVESTMENT
Products up to 560Wp, 30 years of warranty.

ENCOURAGING INNOVATION
European production technology

Address: Abundance Solar Panels Industries – L .L .C Plot No 7-8, KHIA5, KEZAD, Abu Dhabi, UAE
Website: www. bronzesolar.com

ABS-MOD/TDS132GTS-M10/Rev-00
Date-31.10.2026

ABS-132GTS-M10-540-560W

ENGINEERING DRAWINGS & TECHNICAL PARAMETERS

BRONZE SOLAR

ELECTRICAL CHARACTERISTICS (STC/NMOT/BNPI)

Models	Maximum Rating Power (Pmax) (W)			Open Circuit Voltage (Voc) (V)			Maximum Power Voltage (Vmp) (V)			Short Circuit Current (Isc) (A)			Maximum Power Current (Imp) (A)			Module Efficiency
	STC	NMOT	BNPI	STC	NMOT	BNPI	STC	NMOT	BNPI	STC	NMOT	BNPI	STC	NMOT	BNPI	%
ABS-132GTS-M10-540	540	403.6	600	48.23	45.35	48.23	41.14	38.38	41.14	13.81	11.14	15.47	13.17	10.55	14.62	22.80%
ABS-132GTS-M10-545	545	407.4	605	48.31	45.42	48.31	41.24	38.48	41.24	13.85	11.18	15.51	13.26	10.62	14.72	23.01%
ABS-132GTS-M10-550	550	411.1	610	48.39	45.50	48.39	41.43	38.65	41.43	13.88	11.20	15.55	13.32	10.67	14.79	23.22%
ABS-132GTS-M10-555	555	414.9	615	48.48	45.58	48.48	41.62	38.83	41.62	13.91	11.22	15.58	13.38	10.71	14.85	23.43%
ABS-132GTS-M10-560	560	418.6	620	48.56	45.66	48.56	41.77	38.97	41.77	13.94	11.25	15.61	13.45	10.77	14.93	23.64%

STC: 1,000 W/m² front, cell temperature 25 °C, AM1.5. BNPI: 1,000 W/m² front + 135 W/m² rear; other conditions require confirmation.

NMOT: 800 W/m², ambient 20 °C, wind 1 m/s, module operating near maximum power.

Electrical measurement uncertainty: ±3% for Pmax, Voc, Vmp, Isc and Imp at STC and NMOT. Pmax is the nominal power class. Power-class assignment and numerical rounding may cause slight differences between nominal Pmax and Vmp × Imp. Positive sorting applies to measured STC power.

ILLUSTRATIVE BIFACIAL POWER GAIN

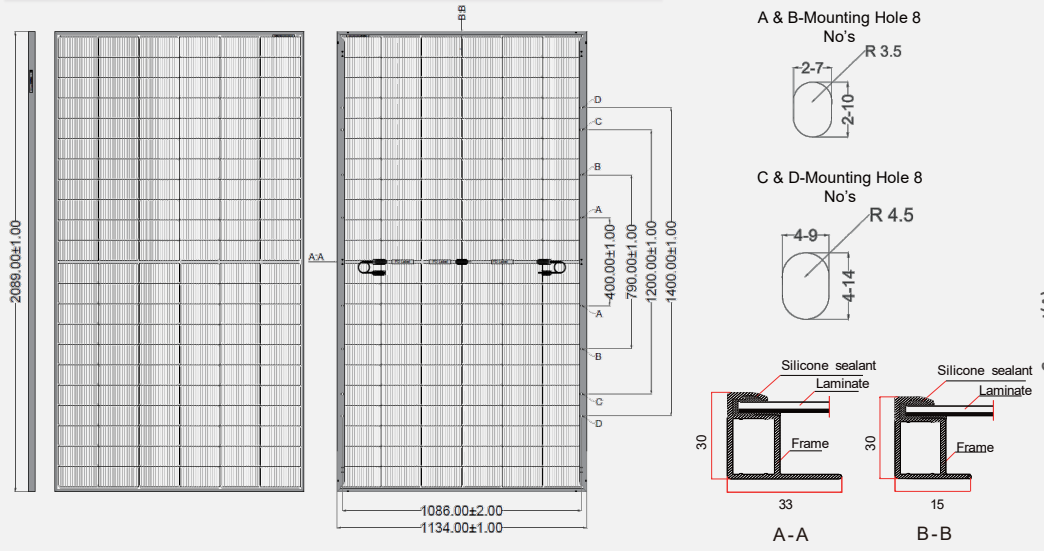
Models		540 W	545 W	550 W	555 W	560 W
10%	Power (W)	594	600	605	611	616
15%	Power (W)	621	627	633	638	644
20%	Power (W)	648	654	660	666	672
25%	Power (W)	675	681	688	694	700

Assumed power gain relative to front-side STC rating. Calculated output = nominal power × (1 + Power gain). Actual gain depends on rear irradiance, albedo, mounting height, spacing and shading. These figures are not guaranteed site yields.

MECHANICAL DATA

Solar cell	TOPCon half-cut, 182.2 × 91.88 mm, 16BB
Number of half-cells	132 (6 × 22)
Dimensions	2,089 × 1,134 × 30 mm (82.24 × 44.65 × 1.18 in)
Weight	25 kg (±3%)
Front Glass	3.2 mm, High Transmission, Low Iron, Tempered ARC Glass
Encapsulant	Front: EPE multilayer film / Rear: EVA
Back Sheet	Transparent Back sheet
Frame	Silver-anodized aluminium alloy, 6005-T6
Junction box	Dhash JB 12Y, 25 A; IP68; 1,500 V DC; 3 bypass diodes
Connectors	Dhash DS01
Output cable	4 mm²; 400 mm or 1,300 mm, per order
Packaging	36 modules/pallet; 792 modules/40-foot HC container

DIMENSIONS OF PV MODULE (mm)



OPERATING CONDITION

Front test load	5,400 Pa
Rear test load	2,400 Pa
Maximum system voltage	1,500 V DC
Maximum series fuse	25 A
Operating temperature	−40 to +85 °C
Protection class	Class II
Fire classification	Class C

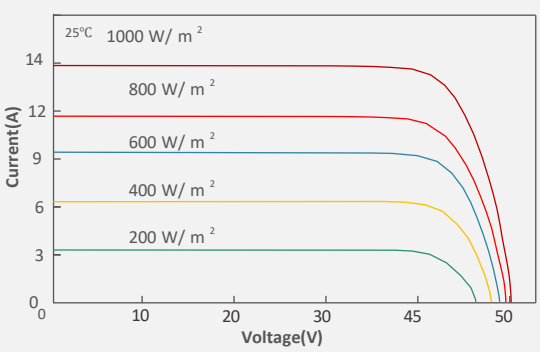
TEMPERATURE CHARACTERISTICS

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

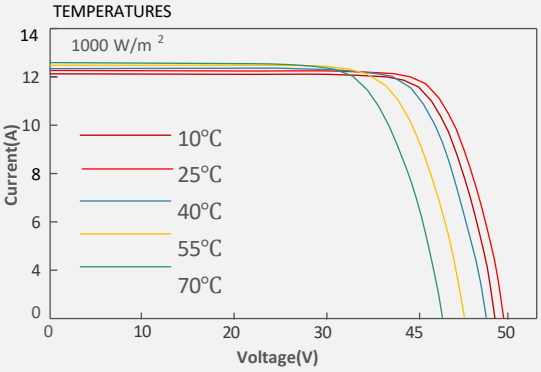
Loads apply to the specified mounting configurations. Test loads are not allowable design loads.

IV-CURVES

CURRENT-VOLTAGE CURVE UNDER DIFFERENT IRRADIANCE



CURRENT-VOLTAGE CURVE UNDER DIFFERENT WORKING TEMPERATURES



Typical I–V characteristics are presented for reference purpose only.

Address: Abundance Solar Panels Industries – L .L .C Plot No 7-8, KHIA5, KEZAD, Abu Dhabi, UAE
Website: www. bronzesolar.com

ABS-MOD/TDS132GTS-M10/Rev-00
Date-31.10.2026