



ABS-132GGS-G12

705W – 725W

Topcon Half Cut PV Module

Glass/Glass-Silver Frame

725W

MAXIMUM POWER OUTPUT

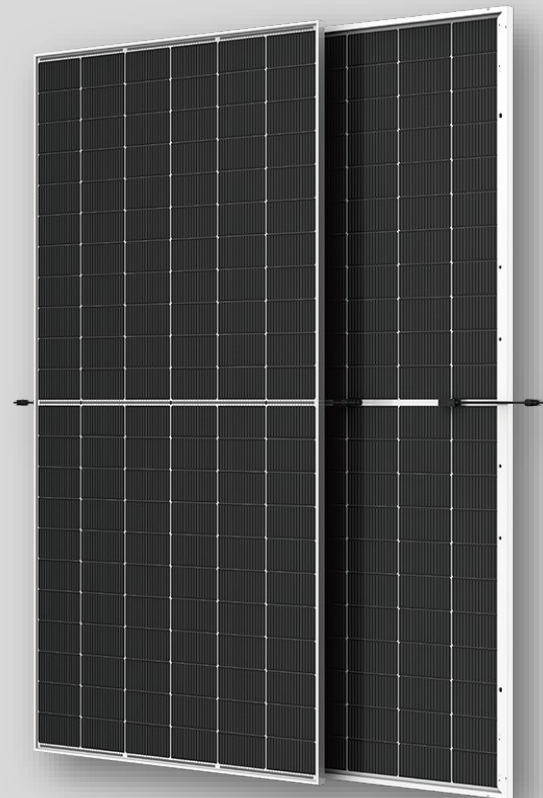
+10W

OUTPUT POSITIVE TOLERANCE

Guaranteed 0~+10W positive tolerance ensures power output reliability.

23.3%

MAXIMUM EFFICIENCY



KEY FEATURES



LOW SYSTEM COST

Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 23.34%.



EXTREME WEATHER RATING

High-tech aluminum alloy frame, certified for high snow (5400 Pa) and wind loads (2400 Pa).



ADVANCED MODULE TECHNOLOGY

Highest reliability & enhanced crack tolerance MBB module



ALL-WEATHER TECHNOLOGY Optimal

Yields, whatever the weather, with low-light and temperature behaviour.



BETTER TEMPERATURE COEFFICIENT

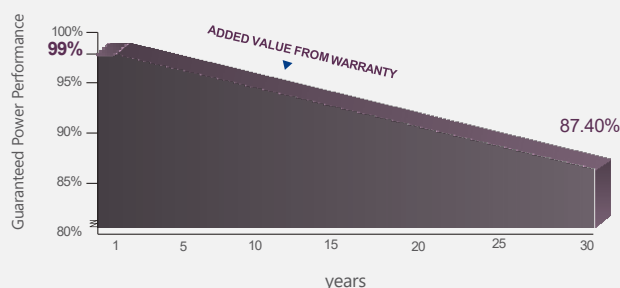
Lower temperature coefficient (Pmax): -0.30%/°C, increases energy yield in hot climate



ENDURING HIGH PERFORMANCE

Anti LID and Anti PID Technology. Under long-term production safety conditions, the limited power degradation caused by the PID effect is guaranteed.

LINEAR PERFORMANCE WARRANTY



Product warranty
30
Years

30-year Warranty for Extra Linear Power Output

Product warranty
12
Years

12-year Warranty for Materials and Processing
(1st year ≤ 1.0%, 2nd~30th years ≤ 0.40% / year)

THE IDEAL SOLUTION FOR



Residential



Commercial



Off-Grid



Utility

ADVANTAGES



MADE IN UAE

Premium products are 100% made in the Emirates.



A RELIABLE INVESTMENT

Products up to 725Wp, 30 years of performance warranty.

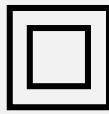


ENCOURAGING INNOVATION

Innovative, prestigious, European production technology

COMPREHENSIVE CERTIFICATES

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



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

ABS-132GGS-G12-705-725W

ENGINEERING DRAWINGS & TECHNICAL PARAMETERS



ELECTRICAL CHARACTERISTICS (STC/NOCT)

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 (EFF)(%)
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	
ABS-132GGS-G12-705	705	527.0	47.06	44.25	40.57	37.85	18.10	14.61	17.43	13.96	22.70%
ABS-132GGS-G12-710	710	530.7	47.17	44.35	40.66	37.94	18.14	14.64	17.54	14.05	22.86%
ABS-132GGS-G12-715	715	534.4	47.22	44.40	40.71	37.98	18.17	14.66	17.59	14.09	23.02%
ABS-132GGS-G12-720	720	538.2	47.34	44.51	40.81	38.08	18.21	14.69	17.69	14.17	23.18%
ABS-132GGS-G12-725	725	541.9	47.44	44.60	40.90	38.16	18.23	14.71	17.79	14.25	23.34%

*Standard Test Condition (STC): Cell Temperature 25 °C, Irradiance 1000 W/m², AM 1.5, Nominal module operating temperature (NMOT): Air mass AM 1.5, Irradiance 800W/m², temperature 20°C, windspeed 1 m/s. Reduction in efficiency from 1000W/m² to 200W/m² at 25°C: 3.5 ± 2%
*Values without tolerance are typical numbers. Measurement tolerance: ± 3%''

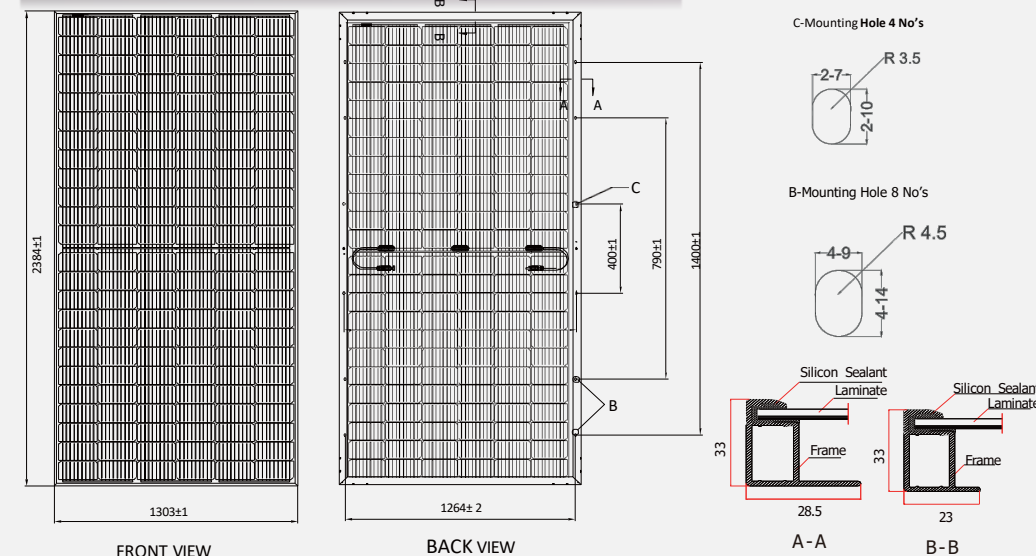
BI-FACIAL OUTPUT-BACKSIDE POWER GAIN

Models		ABS-132GGS-G12-705	ABS-132GGS-G12-710	ABS-132GGS-G12-715	ABS-132GGS-G12-720	ABS-132GGS-G12-725
10%	Power	776	781	787	792	798
	Eff	24.96%	25.14%	25.32%	25.50%	25.67%
15%	Power	811	817	822	828	834
	Eff	26.10%	26.28%	26.47%	26.66%	26.84%
20%	Power	846	852	858	864	870
	Eff	27.23%	27.43%	27.62%	27.81%	28.01%
25%	Power	881	888	894	900	906
	Eff	28.37%	28.57%	28.77%	28.97%	29.17%

MECHANICAL DATA

Solar Cell	Topcon 210 x 105 mm G12, 18BB
No.of cells	132 (6×22)
Dimensions	2384 mm x 1303 mm x 33 mm (93.85" x 51.30" x 1.29" inch)
Weight	39 kg / 85.98 lbs.(±3%)
Front Glass	2.0 mm, High Transmission, Low Iron, Tempered ARC Glass
Cell Encapsulation	EPE(Expanded polyethylene) & EVA (Ethylene-Vinyl-Acetate)
Back Glass	2.0 mm Semi Tempered Glass with Glaze
Frame	Silver Anodized Aluminum Alloy Type 6005T6, Silver Color
Junction Box	IP68, 1500VDC, 3 Bypass Diodes
Connectors Type	IP68 MC4 Compatible
Cable	400mm or 1300 mm, 4mm ²
Package Configuration	33 pcs Per Pallet, 594 pcs per 40' FT container

DIMENSIONS OF PV MODULE (mm)



OPERATING CONDITION

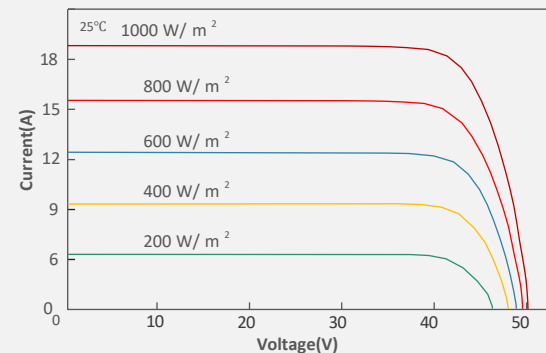
Mechanical Load	5400 Pa
Maximum System Voltage	1500VDC
Series Fuse Rating	30 A
Operating Temperature	-40 to 85 °C
Safety application class	Class II
Fire Rating	Class C

TEMPERATURE CHARACTERISTICS

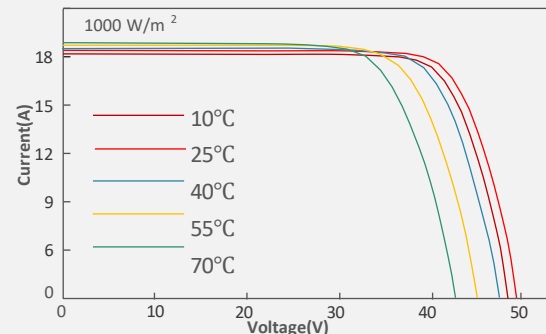
Nominal Module Operating Temperature	43°C ± 2°C
Temperature Coefficient of Isc	+0.05 % / °C
Temperature Coefficient of Voc	-0.25 % / °C
Temperature Coefficient of Pmax	-0.30 % / °C

IV-CURVES

CURRENT-VOLTAGE CURVE UNDER DIFFERENT IRRADIANCE



CURRENT-VOLTAGE CURVE UNDER DIFFERENT WORKING TEMPERATURES



The Graphs are for reference purpose only. Please consult Abundance technical team for further clarifications.