

**ABS-I32GGS-M10**

**535W – 555W**

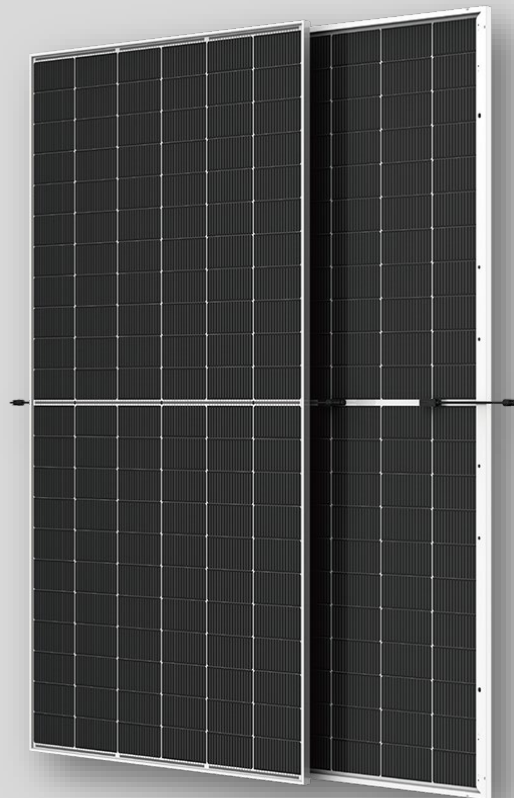
**Topcon Half Cut PV Module**

**Glass/Glass-Silver Frame**

**555W** MAXIMUM POWER OUTPUT

**+10W** OUTPUT POSITIVE TOLERANCE  
Guaranteed 0~+10W positive tolerance ensures power output reliability.

**23.4%** 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 23.43%.



### EXTREME WEATHER RATING

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



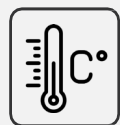
### ADVANCED MODULE TECHNOLOGY

Highest reliability & enhanced crack tolerance MBB module



### ALL-WEATHER TECHNOLOGY Optimal

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



### BETTER TEMPERATURE COEFFICIENT

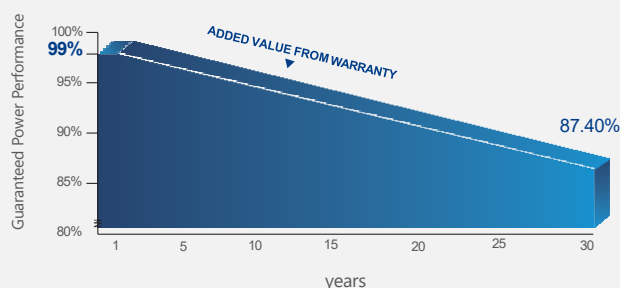
Lower temperature coefficient (Pmax):  
-0.30%/°C, increases energy yield in hot climate



### 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  
(1<sup>st</sup> year ≤ 1.0%, 2<sup>nd</sup>~30<sup>th</sup> years ≤ 0.40% / year)

## THE IDEAL SOLUTION FOR



Residential



Commercial



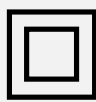
Off-Grid



Utility

## COMPREHENSIVE CERTIFICATES

IEC 61215 | IEC 61730 | IEC 61701 | IEC 62716



UL 1709 | CEC | ISO 9001 | ISO 14001 | ISO 45001

## 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

# ABS-132GGS-M10-535-555W

## 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-M10-535	535	399.9	47.26	44.43	40.74	38.01	14.03	11.32	13.18	10.55	22.58%
ABS-132GGS-M10-540	540	403.6	47.42	44.59	40.88	38.14	14.08	11.36	13.29	10.64	22.80%
ABS-132GGS-M10-545	545	407.4	47.55	44.71	40.98	38.23	14.11	11.39	13.37	10.71	23.01%
ABS-132GGS-M10-550	550	411.1	47.64	44.79	41.07	38.32	14.13	11.40	13.45	10.77	23.22%
ABS-132GGS-M10-555	555	414.9	47.76	44.90	41.18	38.42	14.14	11.41	13.52	10.83	23.43%

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

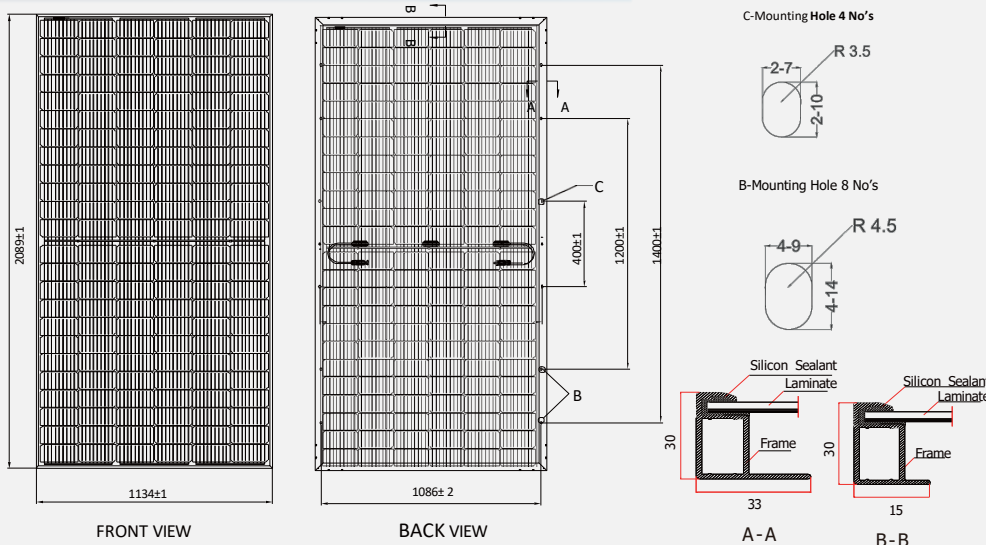
### BI-FACIAL OUTPUT-BACKSIDE POWER GAIN

Models		ABS-132GGS-M10-535	ABS-132GGS-M10-540	ABS-132GGS-M10-545	ABS-132GGS-M10-550	ABS-132GGS-M10-555
10%	Power	589	594	600	605	611
	Eff	24.84%	25.07%	25.31%	25.54%	25.77%
15%	Power	615	621	627	633	638
	Eff	25.97%	26.21%	26.46%	26.70%	26.94%
20%	Power	642	648	654	660	666
	Eff	27.10%	27.35%	27.61%	27.86%	28.11%
25%	Power	669	675	681	688	694
	Eff	28.23%	28.49%	28.76%	29.02%	29.29%

### MECHANICAL DATA

Solar Cell	Topcon 182.2 x 91.88 mm M10 ,16BB
No.of cells	132 (6x22)
Dimensions	2089 mm x 1134 mm x 30 mm ( 82.24" x 44.65" x 1.18" inch)
Weight	29 kg / 63.93 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 <sup>2</sup>
Package Configuration	36 pcs Per Pallet, 792 pcs per 40' FT container ( Two pallets=One stack )

### DIMENSIONS OF PV MODULE (mm)



### OPERATING CONDITION

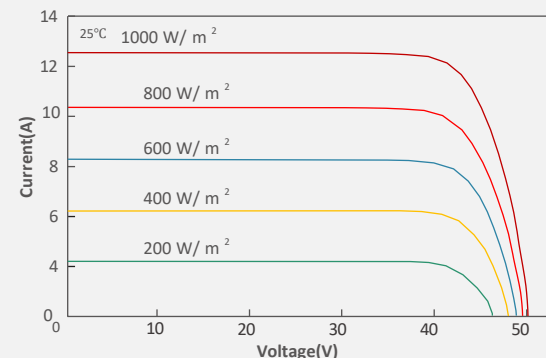
Mechanical Load	5400 Pa
Maximum System Voltage	1500VDC
Series Fuse Rating	25 A
Operating Temperature	-40 to 85 °C
Safety application class	Class II
Fire Rating	Class C

### TEMPERATURE CHARACTERISTICS

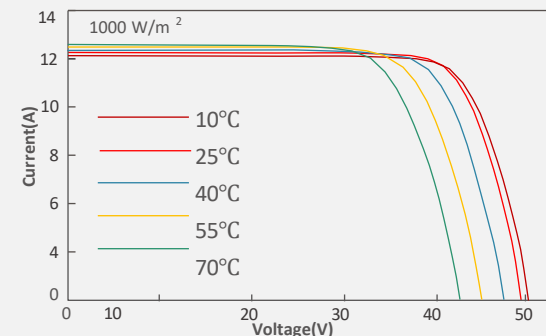
Nominal Module Operating Temperature	43°C ± 2°C
Temperature Coefficient of Isc	+0.05 % / °C
Temperature Coefficient of Voc	-0.25 % / °C
Temperature Coefficient of Pmax	-0.30 % / °C

### 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.