

ABS-120GWS-M10 485W - 505W

Topcon Half Cut PV Module

Glass/White Back Sheet-Silver Frame



MAXIMUM POWER OUTPUT

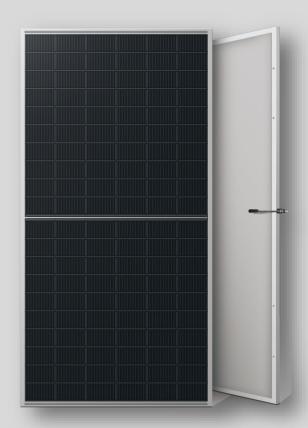


**OUTPUT POSITIVE TOLERANCE** 

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 TEMPERTURE COEFFICIENT

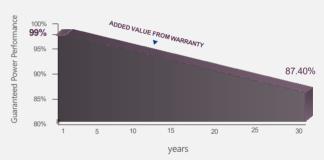
Lower temperature coefficient (Pmax): -0.30%/°C, increases energy yield in hot climate



### **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



30 Years

30-year Warranty for Extra Linear Power Output



12-year Warranty for Materials and Processing  $(1^{st} \text{ year} \le 1.0\%, 2^{nd} \sim 30^{th} \text{ years} \le 0.40\% / \text{ year})$ 

# HE IDEAL SOLUTION FOR









Residential

MADE IN UAE

Premium products

are 100% made in

the Emirates.

Commercial

Utility

#### **ADVANTAGES COMPREHENSIVE CERTIFICATES**







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





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





# A RELIABLE INVESTMENT

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



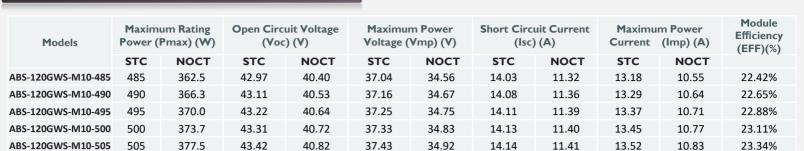
**ENCOURAGING** INNOVATION

Innovative, prestigious, European production technology

# ABS-120GWS-M10-485-505W

### **ENGINEERING DRAWINGS & TECHNICAL PARAMETERS**





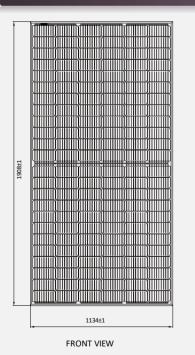
<sup>\*</sup>Standard Test Condition (STC): Cell Temperature 25 °C, Irradiance 1000 W/m², AM 1.5, Nominal module operating temperature (NMOT): Air mass AM 1.5, Irradiance 800W/m², temperature 20°C, windspeed 1 m/s. Reduction in efficiency from 1000W/m² to 200W/m² at 25°C: 3.5 ± 2%.

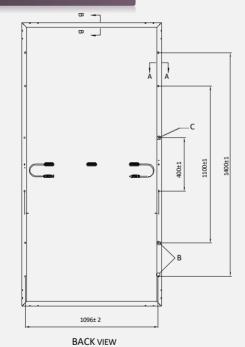
\*Values without tolerance are typical numbers. Measurement tolerance: ± 3%```

### **MECHANICAL DATA**

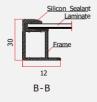
Solar Cell	Topcon 182.2 x 91.88 mm M10,16BB	
No.of cells	120 (6×20)	
Dimensions	1908 mm x 1134 mm x 30 mm (75.11" x 44.65" x 1.18" inch)	
Weight	23 kg / 50.71 lbs.(±3%)	
Front Glass	3.20 mm, High Transmission, Low Iron, Tempered ARC Glass	
Cell Encapsulation	EPE(Expanded polyethylene) & EVA (Ethylene-Vinyl-Acetate)	
Back Sheet	White Back sheet	
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, 864 pcs per 40' FT container ( Two pallets=One stack )	

### **DIMENSIONS OF PV MODULE (mm)**













### **OPERATING CONDITION**

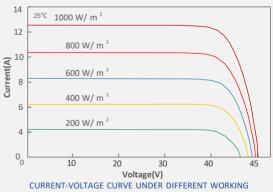
Mechanical Load	5400 Pa
Maximum System Voltage	I500VDC
Series Fuse Rating	25 A
Operating Temperature	-40 to 85 °C
Safety application class	Class II
Fire Rating	Class C

## TEMPERATURE CHARACTERISTICS

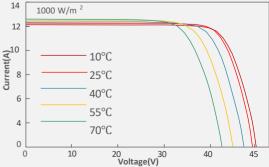
Nominal Module Operating Temperature	43°C ± 2°C
Temperature Coefficient of Isc	+0.05 % / °C
Temperature Coefficient of Voc	-0.25 % / °C
Temperature Coefficient of Pmax	-0.30 % / °C

### **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.