

## GoSolar | 450W Half-cell

### Panel for commercial or industrial applications

The Atimex photovoltaic panels from the Go Solar range combine durability, high efficiency and an exceptional guarantee - making it possible to produce and save more in the long term.



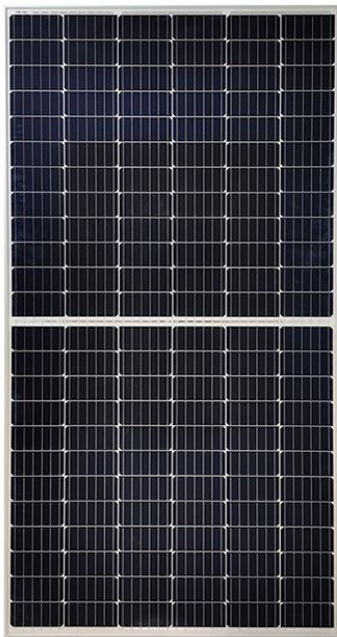
#### High Yield

Its state-of-the-art performance generates more power and savings on an equal area, allowing you to optimize the return on your investment.

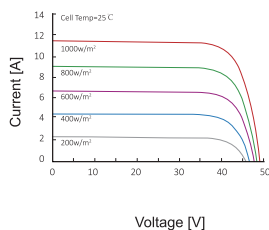


#### Performance guarantee

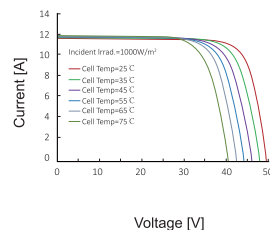
Designed to provide 80%\* performance guarantee over 10 years in real conditions (\*90% perf. over 5 years) - taking into account partial shading and high temperatures.



#### CURRENT-VOLTAGE CURVES :



Module characteristics at constant module temperatures of 25°C and variable levels of irradiance



Module characteristics at variable module temperatures and constant module irradiance of 1.000 W/m²



#### Better reliability, better warranty

With more than ten thousand panels deployed in Africa, the exceptional reliability of Atimex technology is well established. It is for this reason that we offer you an exceptional combined guarantee covering both power, product and services over 5 years.

#### KEY FEATURES



**MBB Half-cut Solar Cell:**  
144 cells (6x24)



**Higher Module Conversion Efficiency:**  
Higher module output up to 450W with module efficiency up to 20.7%.



**Low-light Performance :**  
Advanced glass and surface texturing allow for excellent performance in low-light environments.



**Reliable Warranty :**  
5 year's product warranty.  
Power warranty of 90% up to 5 years and 80% up to 10 years.

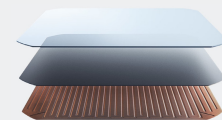


**Lower operating temperature:**  
Ensure the operating security; better for hot region.



**Reduced hot spot risk:**  
With optimized electrical design and lower operating current.

### Think bright, Think GO SOLAR



#### Atimex's GO SOLAR solar cell

- Exceptional performance
- Unmatched reliability
- Great resistance to corrosion

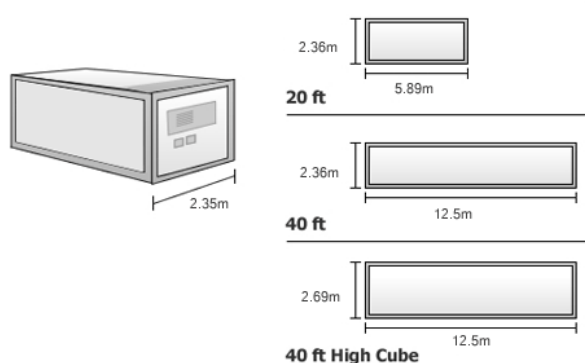
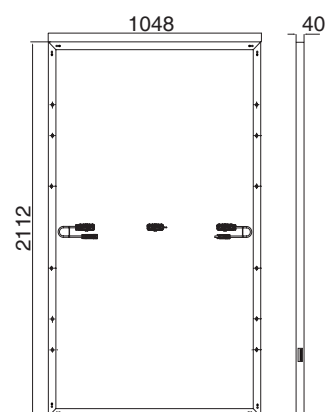
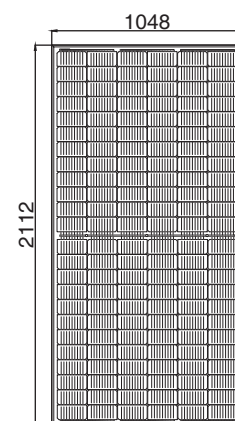


#### As sustainable as the energy it produces

- Modules adhere to the strictest international quality standards
- Each module is checked via EL measurement to avoid output power loss
- Go Solar is using grade A cells to ensure quality at module assembly process

## ELECTRICAL PERFORMANCE

	GS450WM
Module type : GSMono	450 M
Maximum Power(Wp)	450 W
Open circuit Voltage(Voc)	49.3 V
Short circuit Current(Isc)	11.6 A
Maximum Power Voltage(Vm)	41.5 V
Maximum Power Current(Im)	10.85 A
Module efficiency	20.7 %
Maximum Series Fuse	20A
Watts positive tolerance	0~+5 %
Number of Diode	3
Standard Test Conditions	1000W/M2, 25°C, AM1.5
Maximum System Voltage	1000V/DC or 1500V/DC
Temperature- Coefficient Isc	+0.085 %/°C
Temperature- Coefficient Uoc	-0.295 %/°C
Temperature-Coefficient Pmpp	-0.38 %/°C
Normal Operating Cell Temperature	-40°C...+85°C
Load Capacity for the cover of the module (glass)	5400Pa (IEC61215) (snow)
Load Capacity for the front & back of the module	2400Pa (IEC61215) (wind)
Product Certificate	TUV (IEC 61215, IEC 61730), CE ROHS, PID Resistant, INMETR
Company Certificate	ISO9001, ISO14001, ISO18001



## GoSolar | 450 W

### MECHANICAL CHARACTERISTICS

Front cover	low-iron tempered glass / 3.2 mm
Backsheet (color)	TPT in white
Cell	144 (6x24) / monocrystalline silicon
Frame	aluminium hollow-chamber frame on each side anodized alu alloy / silver
Junction box	>IP68
Cables&Plug connectores	4mm <sup>2</sup> , 300mm in length (can be customized)
Module Dim (L/W/H)	2112x1048x40mm
Module Weight	24kg
Class	A (application) / II (Electrical protection) / C Fire safety

### PACKING

Container Size	Units/Pallet (PCS)	Weight/Pallet (KG)	Pallet Measurement (mm)	Units/Container (PCS)
20 GP	46	1114	2150x1130x2060	230
40 HQ	26	634	2150x1130x1180	750
	30	730	2150x1130x1360	