

GoSolar | 500W 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.



Features



High module conversion efficiency

Module efficiency up to 21.3 % achieved through advanced cell technology and manufacturing process



Suntech current sorting process

Up to 2 % power loss caused by current mismatch could be diminished by current sorting technique to maximize system power output



Excellent weak light performance

More power output in weak light condition, such as cloudy, morning and sunset



Lower operating temperature

Lower operating temperature and temperature coefficient increases the power output



Extended wind and snow load tests

Module certified to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal) *



Withstanding harsh environment

Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline

Trust Suntech to Deliver Reliable Performance Over Time

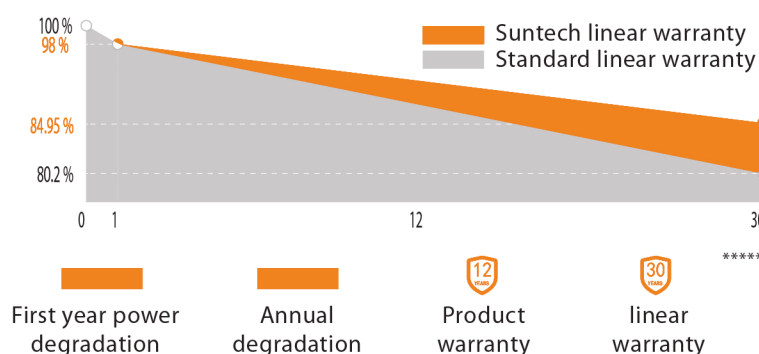
- World-class manufacturer of crystalline silicon photovoltaic modules
- Rigorous quality control meeting the highest international standards: ISO 9001, ISO 14001 and ISO17025
- Regular independently checked production process from international accredited institute/company
- Tested for harsh environments (IEC 61701, IEC 62716, DIN EN 60068-2-68) ****
- Long-term reliability tests
- 2 x 100% EL inspection ensuring defect-free modules

Half-Cell +Bifacial



MBB technology decreases the distance between bus bars and finger grid line which is benefit to power increase. Half-cell aims to eliminate the cell gap to increase module efficiency.

Industry-leading Warranty based on nominal power



IP68 Rated Junction Box



The Suntech IP68 rated junction box ensures an outstanding waterproof level, supports installations in all orientations and reduces stress on the cables.

* Please refer to Suntech Standard Module Installation Manual for details. ** Suntech reserves the right to the final interpretation of the warranty by Munich Re.
 *** WEEE only for EU market. **** Please refer to Suntech Product Near-coast Installation Guide for details.
 ***** Please refer to Suntech Limited Warranty for details.

182mm SERIES, 66-CELL HALF-CUT SERIES

ELECTRICAL PERFORMANCE

Module type: ERA-66HC	480M	485M	490M	495M	500M
Maximum Power(Wp)	480W	485W	490W	495W	500W
Open circuit Voltage(Voc)	44.95V	45.10V	45.25V	45.40V	45.55V
Short circuit Current(Isc)	13.60A	13.68A	13.76A	13.85A	13.93A
Maximum Power Voltage(Vm)	37.75V	37.90V	38.05V	38.20V	38.35V
Maximum Power Current(Imp)	12.72A	12.80A	12.88A	12.96A	13.04A
Module efficiency	20.21%	20.42%	20.63%	20.84%	21.05%
Maximum Series Fuse	25A				
Watts positive tolerance	0~+3%				
Number of Diode	3				
Standard Test Conditions	1000W/M ² , 25°C, AM1.5				
Maximum System Voltage	1500V/DC				
Temperature-Coefficient Isc	+0.048%/°C				
Temperature-Coefficient Voc	-0.270%/°C				
Temperature-Coefficient Pmpp	-0.350%/°C				
Operating Temperature	-40°C...+85°C				
Normal Operating Cell Temperature	45±2°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)				

ELECTRICAL PERFORMANCE (NOCT)

Module type: ERA-66HC	480M	485M	490M	495M	500M
Maximum Power(Wp)	363W	367W	370.5W	374.5 W	378W
Open circuit Voltage(Voc)	42.25V	42.39V	42.54V	42.68V	42.82V
Short circuit Current(Isc)	10.81A	10.88A	10.94A	11.01A	11.07A
Maximum Power Voltage(Vm)	35.67V	35.82V	35.96V	36.10V	36.24V
Maximum Power Current(Imp)	10.18A	10.24A	10.30A	10.37A	10.43A

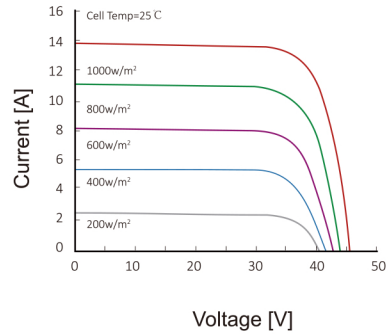
MECHANICAL CHARACTERISTICS

Front cover (material / thickness)	low-iron tempered glass / 3.2mm
Backsheet (color)	TPT in white
Cell (quantity / material / dimensions)	132(6x11x2) / monocrystalline silicon
Frame (material / color)	aluminum hollow-chamber frame on each side anodized aluminum alloy / silver
Junction box (protection degree)	≥IP68
Cables & Plug connectors	4mm ² , 300mm in length,length can be customized
Module Dimensions (L / W / H)	2094x1134x35mm
Module Weight	25kg
Application class	Class A
Electrical protection class	Class II
Fire safety class	Class C

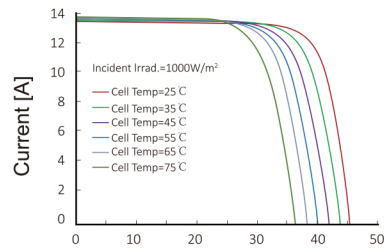
PACKING

Container Size	Units/Pallet (PCS)	Weight/Pallet (KG)	Pallet Measurement (mm)	Units/Container (PCS)
40HQ	31	795	2130x1130x1260	682

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

MODULE DIAGRAM:

