

# APOLLO 1000 <sup>PLUS</sup> SERIES MODULES



## 270 - 280 WATT

### High Quality Mono-Crystalline PV Modules

Using automated production lines, top of the line solar cells and materials complying with the highest industry standards, ecoSolargy provides a complete set of poly and mono-crystalline PV modules ranging from 250w to 335w.

ecoSolargy modules are in use in small off-grid systems to the largest utility scale solar farms. Modules are tested and built for the severest weather conditions.



ECOXXXT156M-60

## Quality Assurance



- Backed by liability insurance
- Salt Mist Corrosion Certified
- Wind Resistance Load: 2400Pa
- ISO9001:2008



- Electrical insulation test
- Outdoor exposure test
- UV exposure IEC61345
- Thermal cycling
- Humidity freeze



- Damp heat test
- Robustness of termination test
- Wet leakage current test



- Mechanical load test
- Hail impact test
- Bypass diode thermal test



**POSITIVE POWER TOLERANCE**  
+5 / -0 Wp



**PID-FREE**  
PID stands for Potential Induced Degredation. Module power loss is less than 5% under IEC 62804.



**HOT SPOT PROTECTION**  
Designed to withstand localized heating caused by cracked, mismatched cells, interconnection failures or partial shadowing.



**MAXIMUM LOAD**  
Designed to withstand heavy snow and wind pressure under IEC 61215 & 61730.



**IN-HOUSE EL TESTS**  
Electroluminescence (EL) measurements are used to rule out invisible defects such as microcracks, finger defects and low-current output in modules.

## Investment Protection

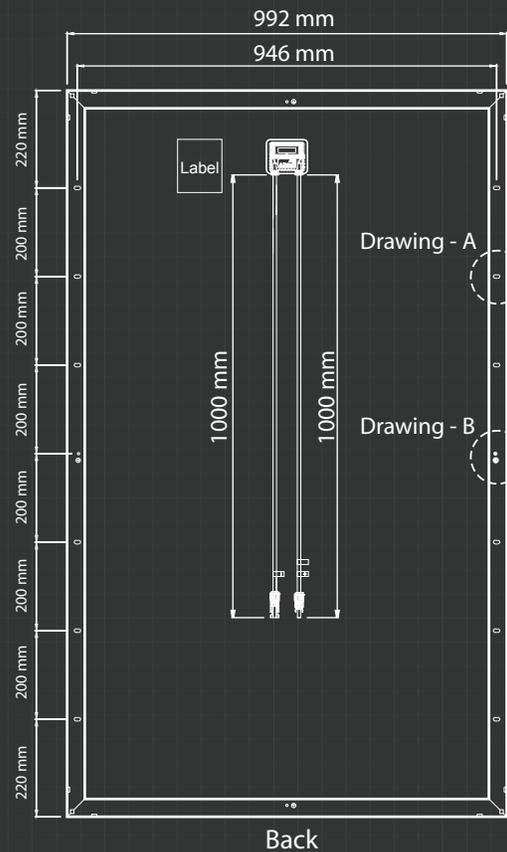
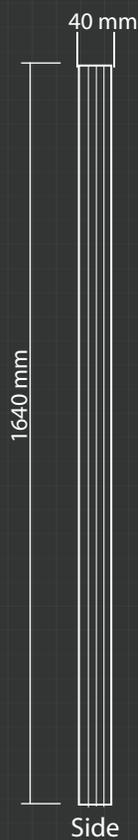
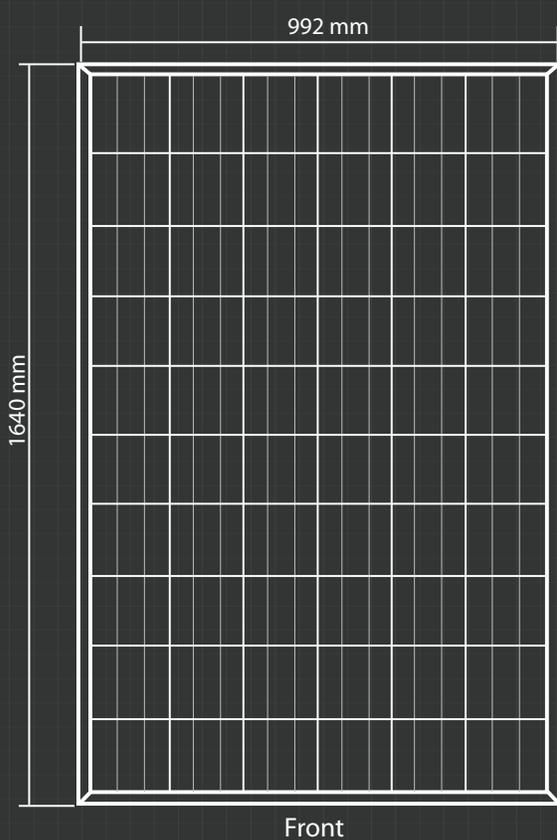
**10** YEAR WORKMANSHIP GUARANTEE + **25** YEAR PERFORMANCE GUARANTEE

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# APOLLO 1000 PLUS SERIES MODULES

270 - 280 W  
MONO SOLAR MODULE



Installation Hole



Drawing - A 5:1

Grounding Hole



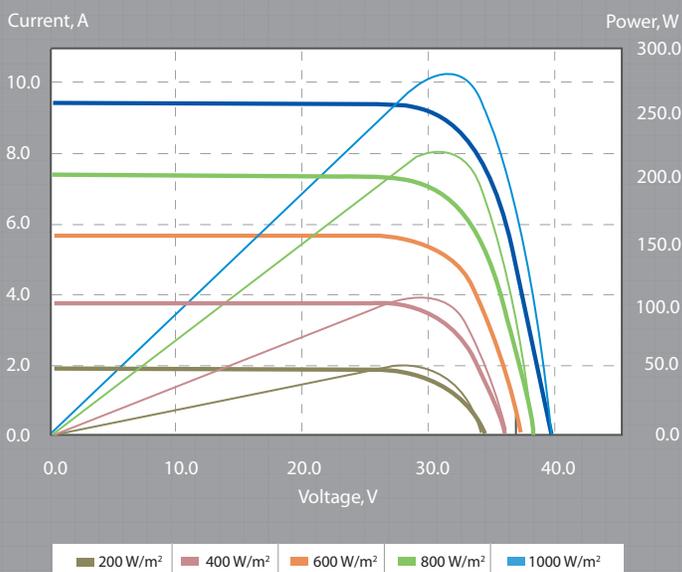
Drawing - B 5:1

## Electrical Characteristics

	ECO270T 156M-60	ECO275T 156M-60	ECO280T 156M-60
Maximum Power [W]	270W	275W	280W
Tolerance	+5 / -0	+5 / -0	+5 / -0
Open Circuit Voltage [V]	38.79V	39.28V	39.56V
Short Circuit Current [A]	9.37A	9.39A	9.46A
Maximum Power Voltage [V]	31.19V	31.57V	31.90V
Maximum Power Current [A]	8.69A	8.73A	8.80A
Solar Module Efficiency [%]	16.60%	16.90%	17.21%

## System Integration Parameters

Series Fuse Rating [A]	15A
Snow Load Acc. to IEC 61215	5400Pa
Wind Load	2400Pa
Maximum System Voltage [V]	VDC 1000V
Operating Temperature [C]	-40 to 85°C
Number of Bypass Diodes	3
Fire Performance	Type 2



## Mechanical Characteristics

Frame	Black Anodized Aluminum
Dimension (L x W x D)	64.57" x 39.06" x 1.57"
Weight/pc	18.5kg/40.79lbs
Pallets/Container	26pcs; 28pcs/40ft
Loading/Container	728pcs/40ft
Junction Box	IP 67, with bypass diodes
Connector	MC4 compatible
Output Cables	TUV, ±length 1000mm, 4.00mm²
Number of Cells	60 (6x10) - 6 in Cells
Front Glass	Low Iron Tempered with ARC

## Temperature Coefficients

NOCT	45.5°C ±2°C
Voc	-0.312%/°C
Isc	0.069%/°C
Max Power Output	-0.432%/°C

## Standard Test Conditions (STC)

Irradiance	1000W/m²
Module Temperature	25°C
AM	1.5