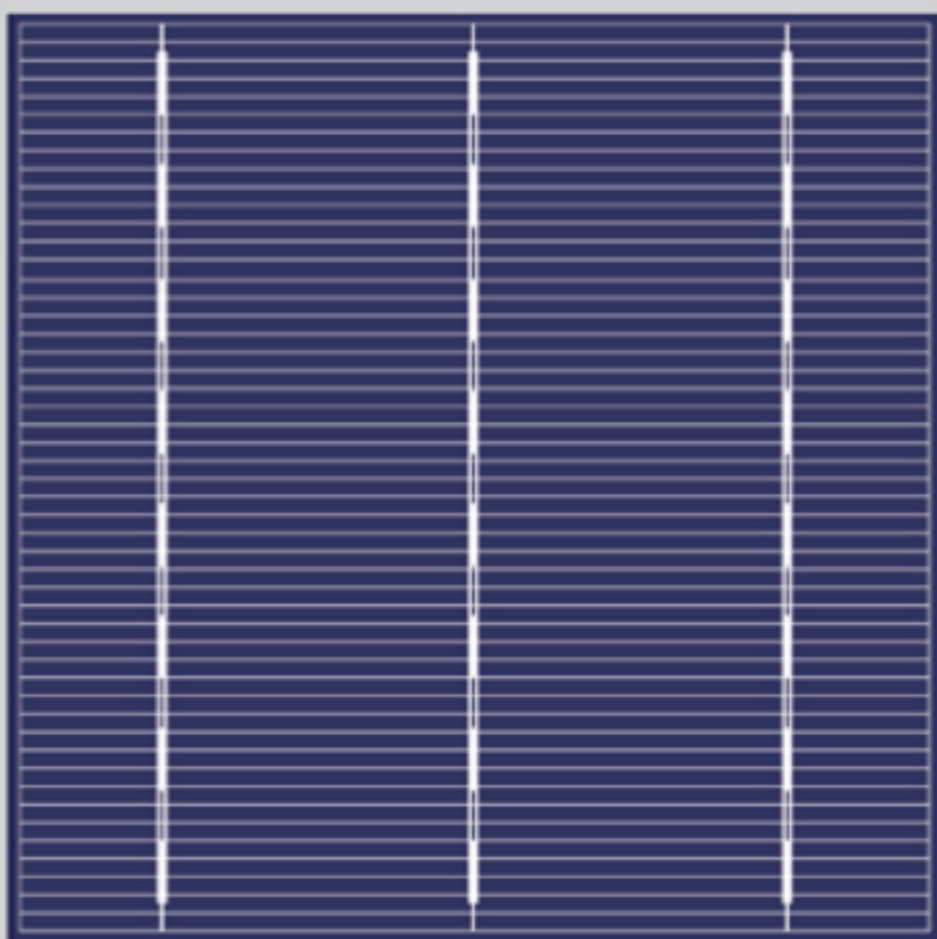
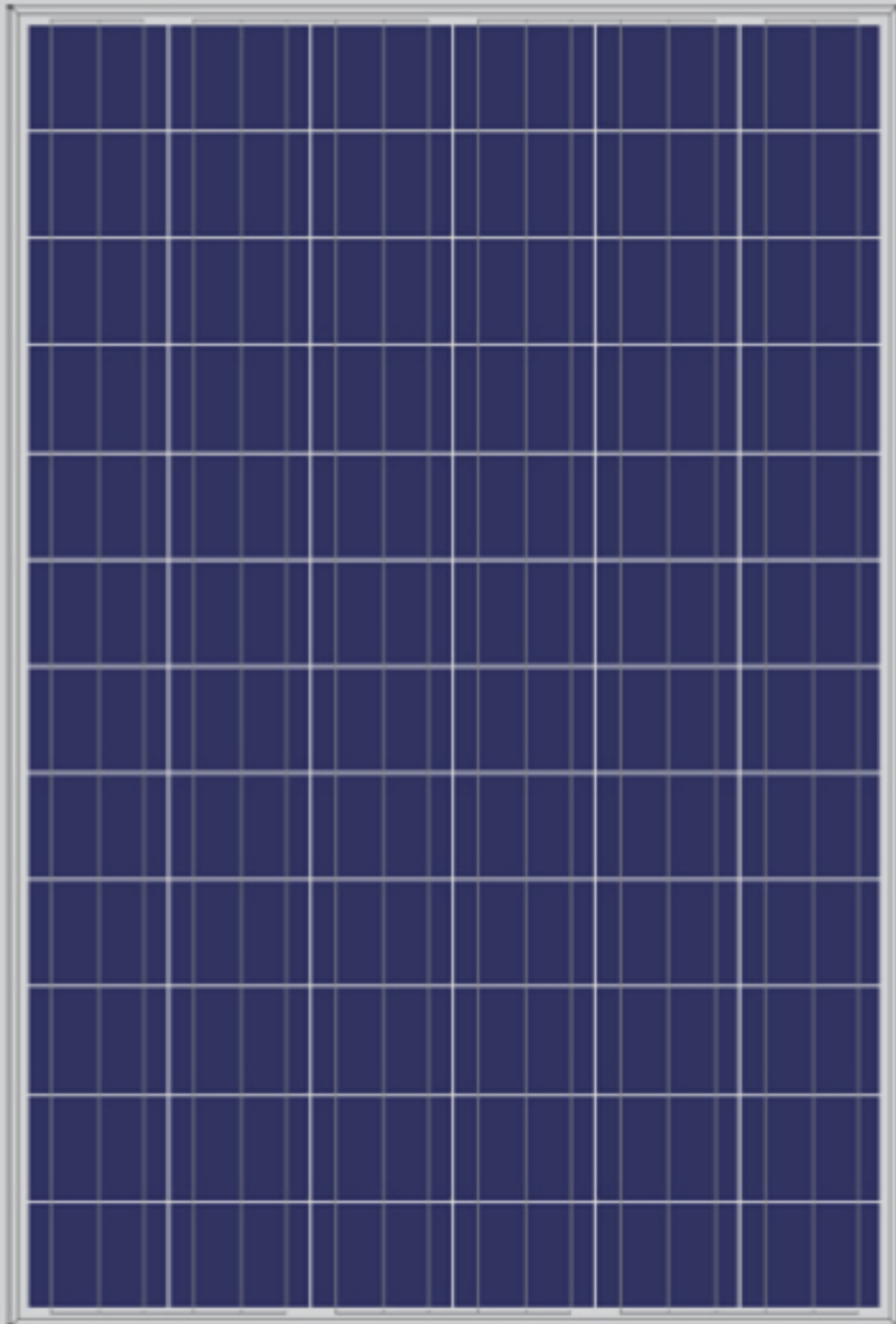




# GP-210 GP-220 GP-230

## POLYCRYSTALLINE SILICON MODULE



### Products Characteristics



Widely using of the most popular and mature type of modules for off-grid system.



Leading manufacturing technology in PV industry, strictly controlling the quality of raw materials and the process of producing



100% EL inspection, ensures modules are defects free.



Cells binned by current to improve module performance



Anti reflective glass. Not only to increase the light absorption, but also to make the module has the function of self-cleaning in water environment, effectively reducing the power loss caused by dust.



Outstanding performance in low-light irradiance environments.



Excellent mechanical load resistance: Certified to withstand high wind loads(2400pa) and snow loads(5400pa).



High salt and ammonia resistance



Positive power tolerance: 0~+5w

### Warranty

- 5 years product warranty
- 10-years 90% of Min. rated output power, and 25-years 80% of Min. rated output power warranty

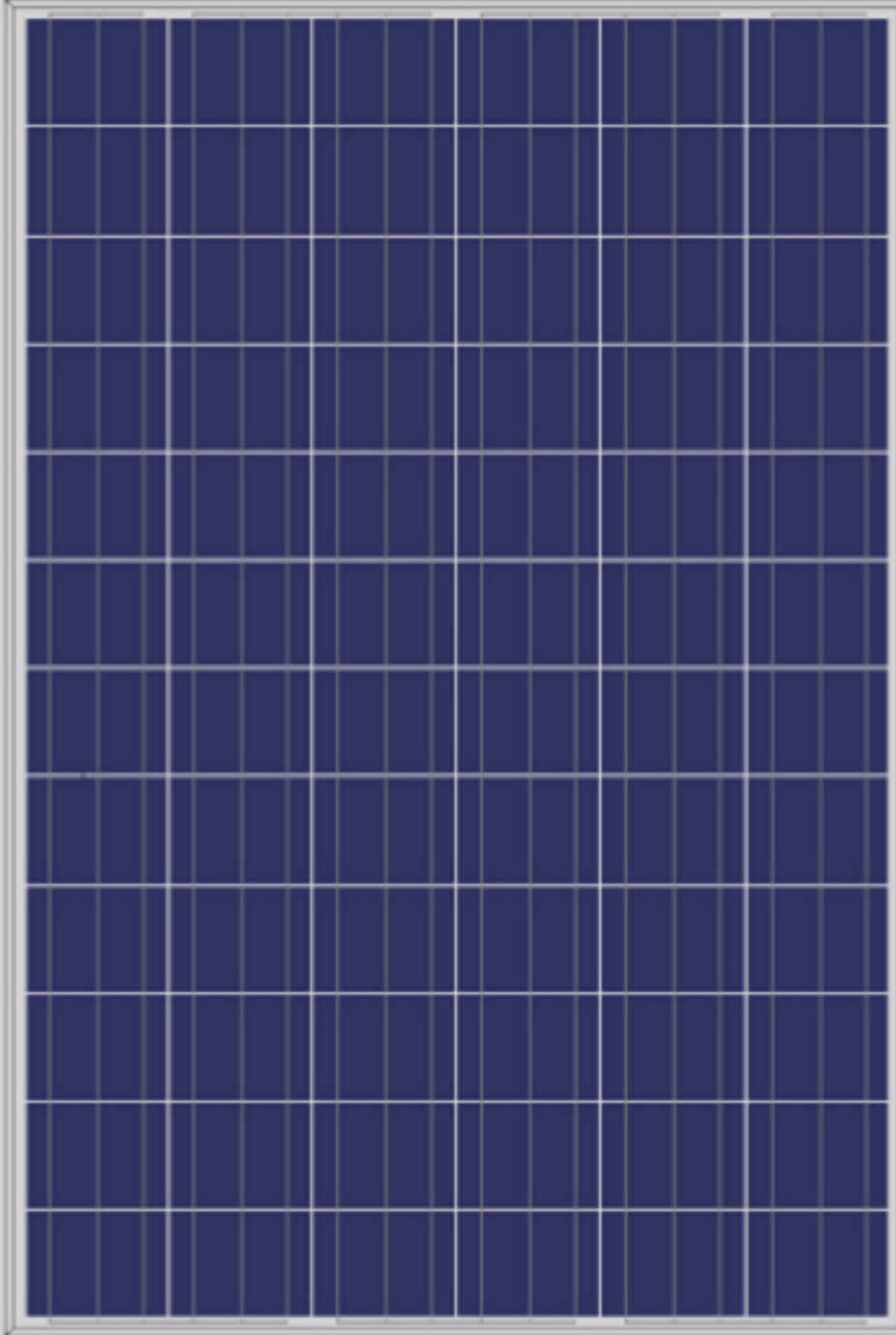


# GP-210 GP-220 GP-230

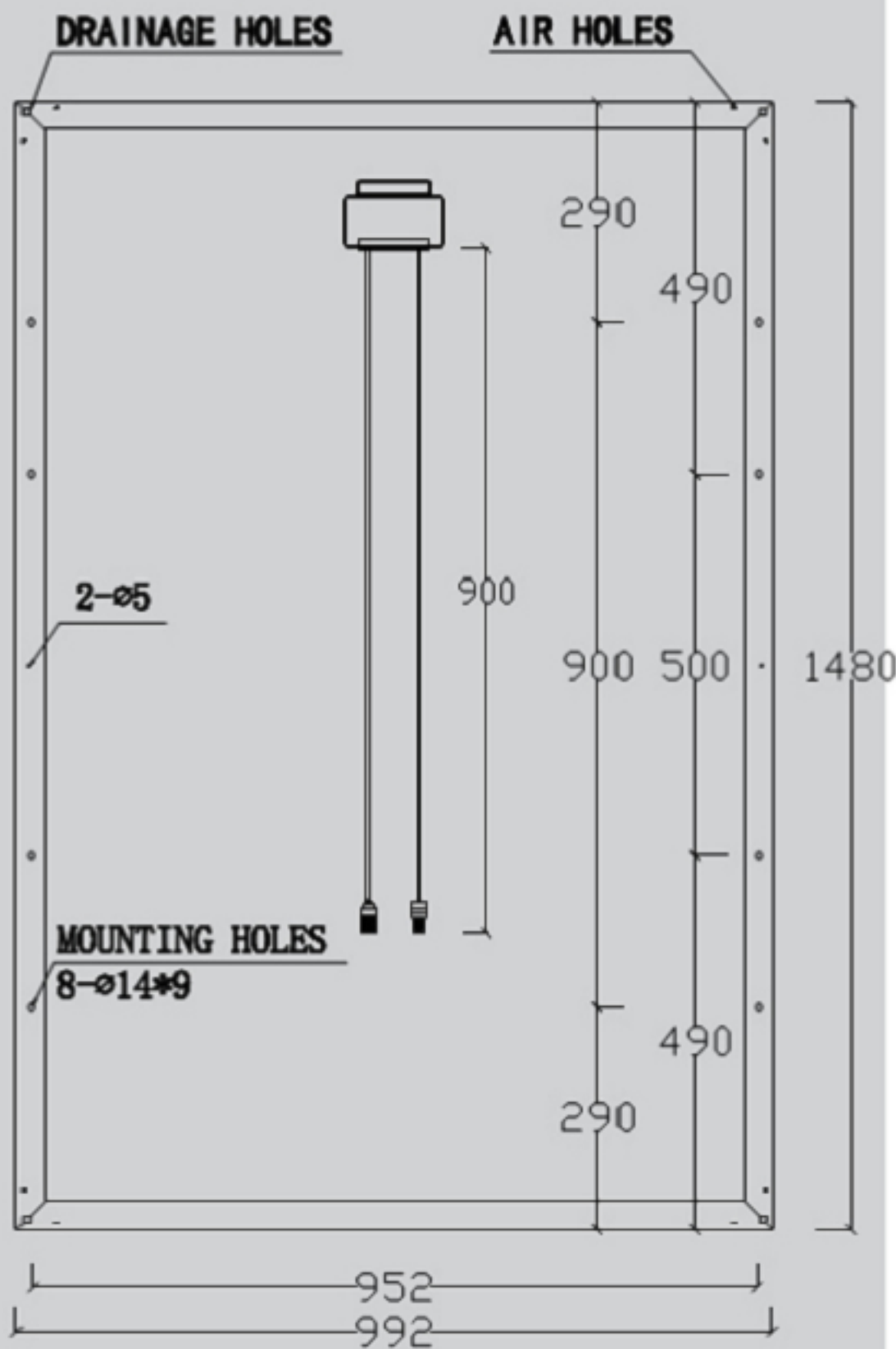


**GREENERGY POWER**  
SOLAR TECHNOLOGY

## ▼ Engineering Drawings (Front Side)



## ▼ Engineering Drawings (Back Side)



## Raw materials and Mechanical Parameters

	GP-210	GP-220	GP-230
Type of Cells(mm)		poly156 × 117	
NO. of Cells and Connections		6 × 12=72	
Dimensions(mm)(L*W*H)		1480 × 992 × 40	
Weight(kg)		16.6	
Glass		3.2mm Tempered Glass	
Encapsulation		EVA	
Backsheet		Multilayer Composite	
Aluminium-Frame		Silvery/Black Anodized aluminium alloy	
Junction-Box		IP65/IP67	
Cable		4mm <sup>2</sup> , 900mm	
Connector		MC4 and MC4 Compatible	
Package Configuration		25pcs/pallet	

## Performance Parameters

	GP-210	GP-220	GP-230
Maximum System Voltage		1000V	
Operating Temperature		-45~+80°C	
Maximum Series Fuse		10A	
Maximum Static Load, Front Side (e.x. Snow, Wind)		5400PA	
Maximum Static Load, Back Side (e.x. Wind)		2400PA	
Application Grade		Class A	

## Electrical Parameters (Standard Test Condition)

	GP-210	GP-220	GP-230
Rated Maximum Power(Mp)	210W	220W	230W
Power Tolerance		0~ +5W	
Cell Efficiency	16.10%	16.80%	17.60%
Open Circuit Voltage(Voc)	44.6V	44.6V	44.8V
Maximum Power Voltage(Vmp)	34.8V	34.8V	35.0V
Short Circuit Current(Isc)	6.40A	6.68A	7.02A
Maximum Power Current(Imp)	6.04A	6.33A	6.58A
Temperature Coefficient of Isc		+0.06%	
Temperature Coefficient of Voc		-0.33%	
Temperature Coefficient of Pmp		-0.45%	
Standard Test Condition	Irradiance:1000W/M2, Cell Temperature:25°C, Spectrum AM:1.5		

The Electrical Parameters of the module are the average theory figure under the standard test condition, each one exists difference. Can not be treated as the basis of module delivery.