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Solar Panel Guide Specification Data Sheet

Ningbo Green Light Energy Technology Co., Ltd.

GS-50P

GS-50P

Also available on the web at

EnergyPal.com/ningbo-green-light-energy-technology-co-ltd-solar-panels/gs-50p



GREEN SOLAR

Photovoltaic Module

Polycrystalline

GS-50P



Quality and Safety

- *Rigorous quality control meeting the highest international standards
- * High-transmissivity low-iron tempered glass, strong aluminium frame Using UV-resistant silicon
- * Safety Class II,conformity to CE

Features

- *Aesthetic appearance with excellent efficiency based on innovative photovoltaic technologies
- *High quality,strong aluminium frame,passing mechanical load testing 5400 Pa and wind pressure 2400Pa

Warranties

- *10 years limited product warranty
- *15 years at90% of the minimal rated power output
- *25 years at80% of the minimal rated power output

Certificates



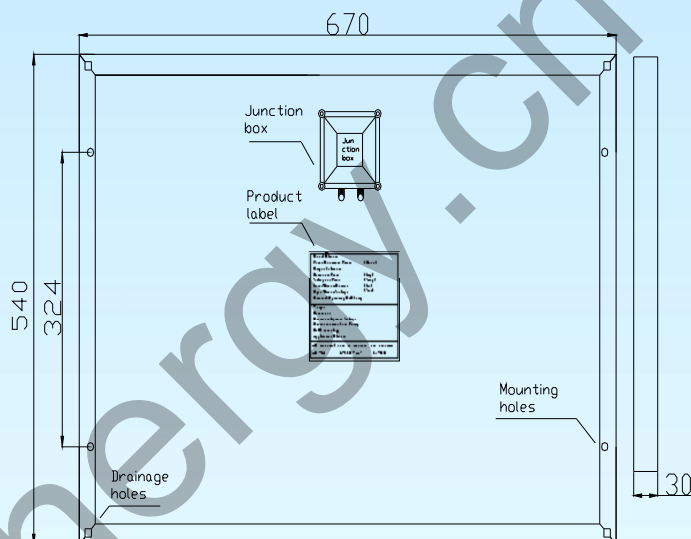
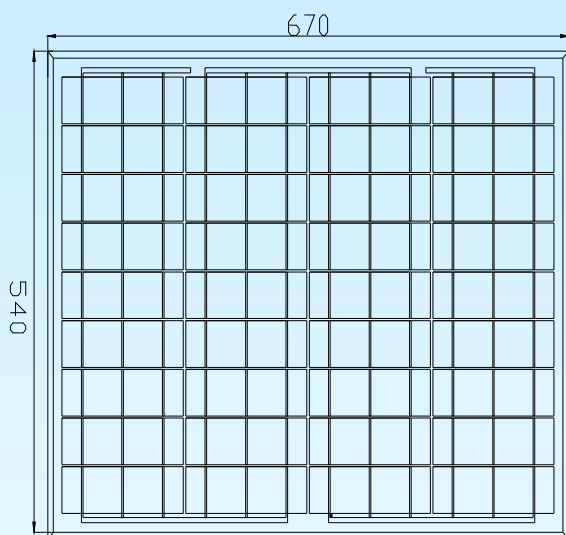
Electrical Characteristics

Model	GS-50P6
Maximum Power at STC (P _{max})	50W
Optimum Operating Voltage (V _{mp})	17.5V
Optimum Operating Current (I _{mp})	2.858A
Open-Circuit Voltage (V _{oc})	21.60V
Short-Circuit Current (I _{sc})	3.120A
Solar Cell Efficiency (%)	17.6
Solar Module Efficiency (%)	13.82
Operating Temperature	-40to85°C
Maximum System Voltage	DC1000
Maximum Series Fuse Rating	15A
Power Tolerance	+/-3%
STC:Irradiance 1000W/m ² ,Modules Temperature 25°C,AM=1.5	



GREEN SOLAR

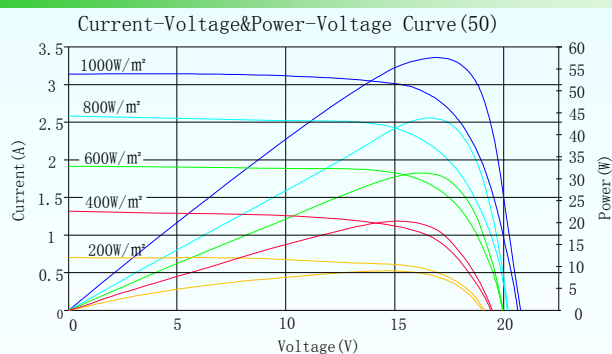
Engineering Drawings



Mechanical Characteristics

Solar cell	Poly-Crystalline 156*52mm
No. of cells	36(4×9)
Dimensions	540mm*670mm*30mm
Weight	5.1kg
Front glass	3.2mm tempered glass
Frame	Anodized aluminium alloy
Junction box	PV-LH0801
Connector	/
Output cables	/
1*20'	/
1*40'	/
1*40'HQ	/

IV-Curves



Temperature Coefficient

Nominal Operating Cell Temperature (NOCT)	47°C ± 2°C
Temperature Coefficient of Pmax	-0.47%/K
Temperature Coefficient of VOC	-0.351/K
Temperature Coefficient of ISC	+0.035/K