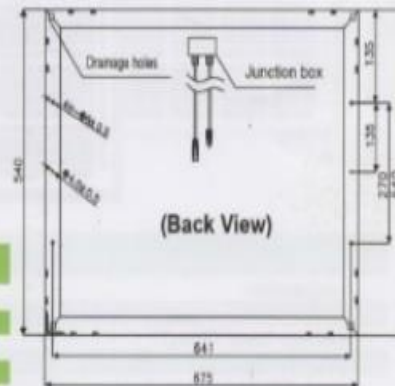
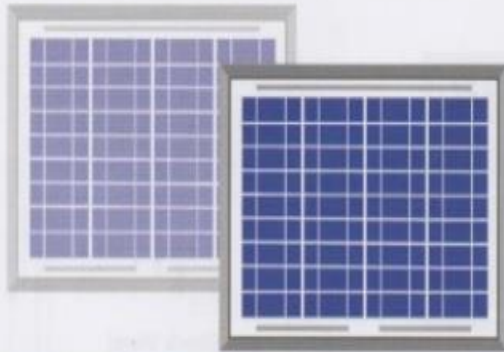


Photovoltaic Modules

GPP50W(36)

Photovoltaic modules
36pcs 156x52mm poly-crystalline silicon cell



MODULE		GPP50W(36)		
Encapsulation		Glass/EVA/Cell/EVA/TPT		
Size and Number of cells		156mm*52mm 36/9*4pcs		
Maximum Power (Pmax)	W	40	45	50
Cell efficiency	%	14.50	15.40	15.80
Module Efficiency	%	13.00	13.30	13.50
Tolerance	%	±3		
Open Circuit Voltage (Voc)	V	21.60	21.78	21.90
Short Circuit Current (Isc)	A	2.56	2.85	3.15
Maximum Power Voltage (Vmp)	V	18.00	18.15	18.25
Maximum Power Current (Imp)	A	2.22	2.48	2.74
Max syst.Open Circuit Voltage	V	600		
Diodes		2by-pass		
Dimension	mm	675*540*35		
Weight	kg	4		
Operate Temp Scope	°C	-40/+85		
Relative humidity		0~100%		
Frame Thickness	mm	35		
Frame Colour		Gold/Brown/Black/Silver		
Quantity/Container		1200pcs/20GP, 2800pcs/40GP, 3200pcs/40HQ		

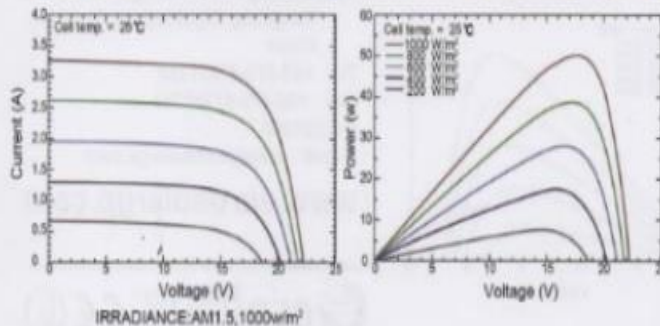
Temperature Coefficients

NOCT		45 C±2 C
short-circuit-current temperature coefficient	$\alpha(I_{sc})$	0.10%/°C
open-circuit Voltage temperature coefficients	$\beta(V_{oc})$	-0.38%/°C
peak power temperature coefficients	$\gamma(P_{max})$	-0.47%/°C

NOCT: Nominal Operating Cell Temperature data is only for reference.

Output

Cable 2.5mm ² (TUV)	Length 900mm	Connector MC Type
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Photovoltaic modules 36pcs 156x52mm poly-crystalline silicon cell

The GPP50W series modules consist of 36pcs 156x52mm poly-crystalline high efficient silicon cells, which are individually characterized and electronically matched before interconnection and Laminated with toughened glass, EVA and TPT of high quality.

After assembled with anodized aluminum alloy frame, cable and junction box with MC4 connectors, G&P solar modules can be installed easily and work for a long period. At the same time, they can withstand the storm, strong wind and hail impact, etc.

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