



GES-P275 GES-P280

GES-P270 GES-P285 GES-P290

Polycrystalline Photovoltaic Module

Features

- High efficient solar cells are utilized in photovoltaic module
Cell efficiency up to 17.4%
- High module efficiency and stable power output based on leading process technology
- Outstanding electrical performance under high-temperature conditions or low-irradiance conditions
- Ease of installation and all-weather applications due to the innovative engineering design

Applications

- On-grid utility systems
- On-grid commercial systems
- Off-grid residential systems

Quality and Warranty

- Peak power of single module is guaranteed in (0, +5)W power tolerance
- Rigorous quality control meets the highest international standard
- Product quality and liability are insured
- 5 years limited warranty on material and workmanship
- 12 years and 25 years limited warranty for minimum power output



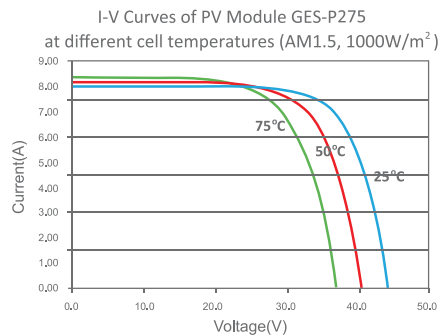
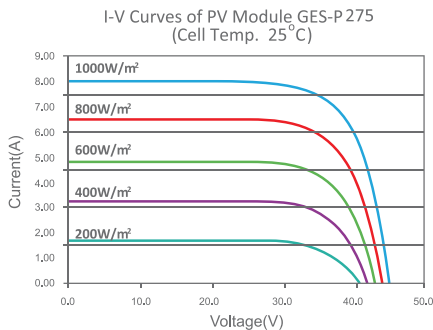


ELECTRICAL CHARACTERISTICS

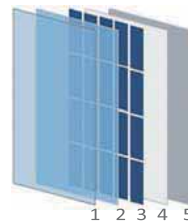
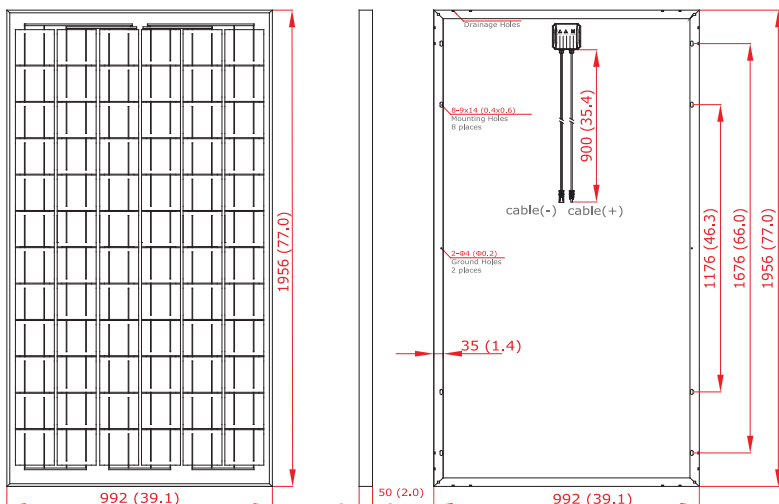
Module Type	Unit	GES-P270	GES-P275	GES-P280	GES-P285	GES-P290
Maximum Power (Pmax)	W	270	275	280	285	290
Power Tolerance	W	(0, +5)	(0, +5)	(0, +5)	(0, +5)	(0, +5)
Open Circuit Voltage (Voc)	V	44.5	44.6	44.8	45.0	45.2
Short Circuit Current (Isc)	A	8.20	8.25	8.33	8.44	8.55
Maximum Power Voltage (Vmp)	V	35.0	35.1	35.2	35.3	35.4
Maximum Power Current (Imp)	A	7.71	7.85	7.95	8.07	8.19
Cell Efficiency (ηc)	%	15.9 ~ 16.2	16.2 ~ 16.5	16.5 ~ 16.8	16.8 ~ 17.1	17.1 ~ 17.4
Module Efficiency (ηm)	%	13.9 ~ 14.2	14.2 ~ 14.4	14.4 ~ 14.7	14.7 ~ 14.9	14.9 ~ 15.2
Cell Technology	156mm x 156mm Polycrystalline Silicon; 72pcs (6x12)					
Pmax Temperature Coefficient	%/°C	-0.35				
Voc Temperature Coefficient	%/°C	-0.32				
Isc Temperature Coefficient	%/°C	+0.04				
Maximum System Voltage	VDC	1000 (TUV); 600 (UL)				
Maximum Series Fuse Rating	A	13				
Operating Temperature	°C	-40 ~ +85				
NOCT	°C	45±2				

STC: 1000W/m², AM1.5 and 25°C cell temperature; NOCT: Nominal Operating Cell Temperature

I-V CURVES



PHYSICAL CHARACTERISTICS Unit: mm(inch)



1. Tempered Glass
2. EVA (Ethylene Vinyl Acetate)
3. Solar Cells
4. EVA (Ethylene Vinyl Acetate)
5. Backsheet

Dimension	1956 x 992 x 50 mm (77.0 x 39.1 x 2.0 inch)
Weight	24 kg (52.9 lbs.)
Cable Length	900 mm (35.4 inch)
Bypass Diodes	3 pcs
Junction Box	IP65 rated
Front Glass	3.2 mm (0.1 inch) tempered low-iron glass
Frame	Anodized aluminum alloy

*Specifications are subjected to change without further notice