



**GER Solar**

## GER-54P

GER-230P-54

GER-235P-54

GER-240P-54

GER-245P-54

### Features and benefits

- ◆ Standard output
- ◆ High efficiency
- ◆ Outstanding low-light performance
- ◆ High transparent low-iron, tempered glass
- ◆ Esthetic appearance, with stands high wind-pressure and snow load

**10 years** product warranty

**25 years** power output warranty

10 years for 90% of warranted minimum power output

25 years for 80% of warranted minimum power output

High Efficiency, High Quality

PV Module (6×9 cells)



### Electrical Characteristics

Model	GER-230P-54	GER-235P-54	GER-240P-54	GER-245P-54
Open-circuit voltage (Voc)	32.80V	33.0V	33.5V	33.8V
Optimum operating voltage (Vmp)	27.7V	27.9V	28.1V	28.2V
Short-circuit current (Isc)	8.80A	8.89A	8.95A	9.11A
Optimum operating current (Imp)	8.30A	8.43A	8.54A	8.69A
Maximum power at STC (Pmax)	230Wp	235Wp	240Wp	245Wp
Operating temperature	-40°C to +85°C			
Maximum system voltage	VDC 1000V			
	*STC: Irradiance 1000W/m <sup>2</sup> , Module temperature 25°C, AM=1.5			

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## Specifications

Cell	Polycrystalline 156×156mm
No. of cells	54(6×9)
Dimension of module	1480mm×990mm×35mm
Weight	17.5kg

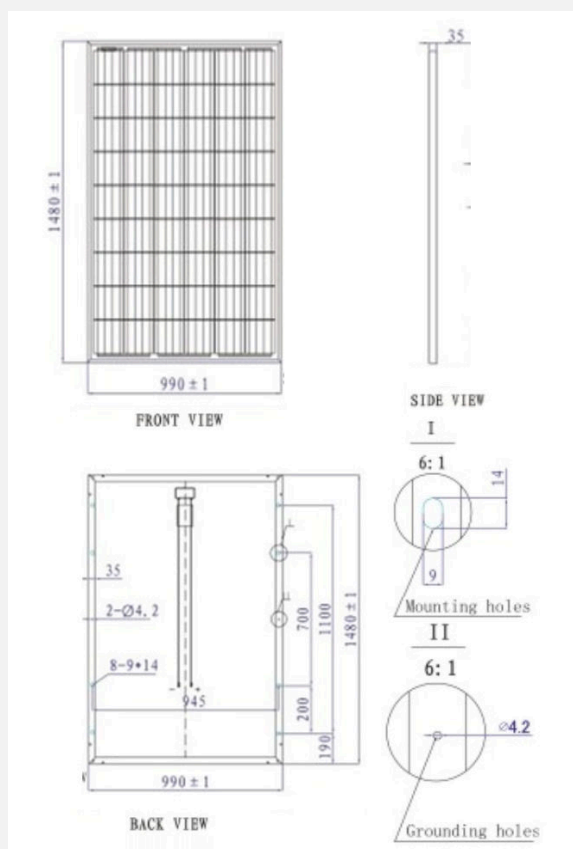
## Temperature Coefficients

NOCT	45°C ± 2°C
Temperature coefficient of Isc	(0.06% ± 0.01)/°C
Temperature coefficient of Voc	-(0.34% ± 0.01)/°C
Temperature coefficient of Pmax	-(0.44% ± 0.01)/°C
Power tolerance	0~+3%

NOCT: Nominal operating Cell Temperature above data is only for reference

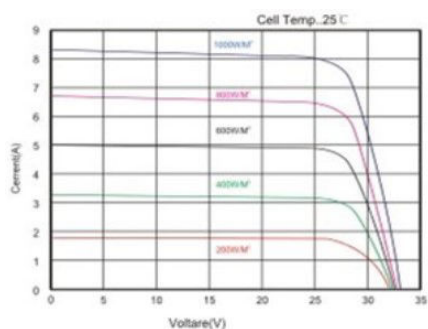
## Output

Cable	LAPP(4.0mm <sup>2</sup> )
Asymmetrical lengths	1200mm(-) and 800mm(+)
Connection	MC Plug Type IV

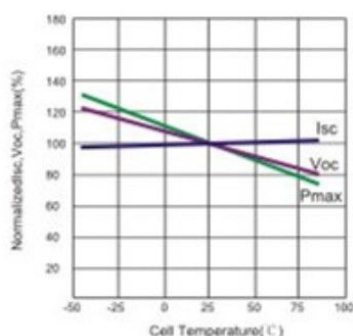


## Characteristics

I-V Curves of GER-230P-54



Power voltage current curve



## Packing

Container	20'GP	40'GP
Pieces per pallet	30	30
Pallets per container	14	30
Pieces per container	420	900

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