

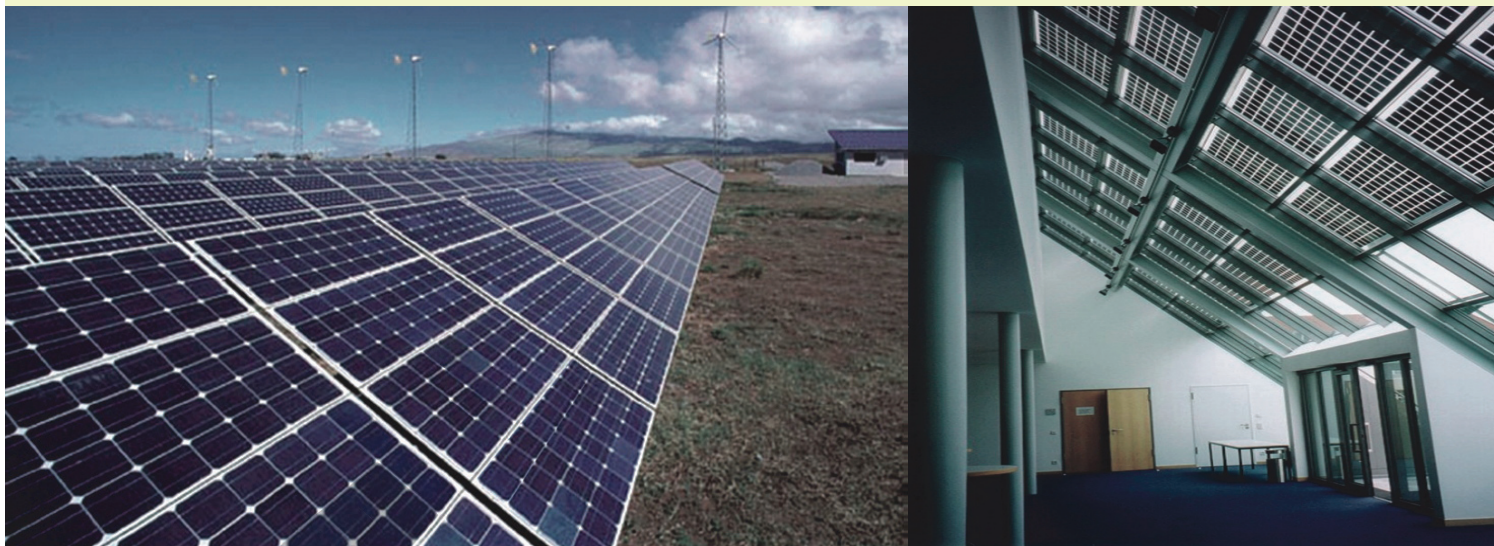


Microstrain Ireland (01-8038388)

HG-185S

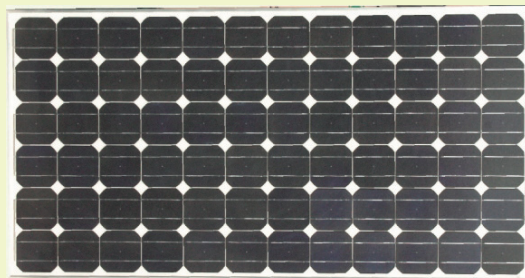
185W www.microstrain.ie

Monocrystalline photovoltaic module



MONOCRYSTALLINE SILICON PHOTOVOLTAIC
MODULE WITH 185W MAXIMUM POWER

Himin Clean Energy Holdings Co.,Ltd has concentrated on solar energy research for 12 years. Himin's HG-185S photovoltaic module is designed for large electrical power requirements, this module has superb durability to withstand rigorous operating conditions and is suitable for grid connected systems.



Features

- ◆ High-power module(185W)using 125mm square monocrystalline silicon solar cells with 14.5% module conversion efficiency.
- ◆ Photovoltaic module with bypass diode minimises the power drop caused by shade.Textured cell surface to reduce the reflection of sunlight and BSF(Back Surface Field)structure to improve cell conversion efficiency : 17.3%
- ◆ Using white tempered glass,EVA resin and an aluminium frame for extended outdoor use
- ◆ DC 24V system and high-voltage output for grid connected system
- ◆ Output terminal:Lead wire with waterproof connector

Specifications HG-185S

Cell	Monocrystalline silicon solar cells, 125mm square
No.of cells and connections	72 in series
Application	DC 24V system
Maximum system voltage	DC 1,000V
Series fuse rating	10A
Nominal power	185W
Dimensions	1580×808×50mm
Weight	16.2Kg
Type of output terminal	Lead wire with connector

Absolute maximum ratings

Parameters	Rating	Unit
Operating temperature	-40 to +85	°C
Storage temperature	-40 to +85	°C

Temperature coefficients

αP_m	-0.490%/°C
αI_{sc}	+0.050%/°C
αV_{oc}	-152mv/°C

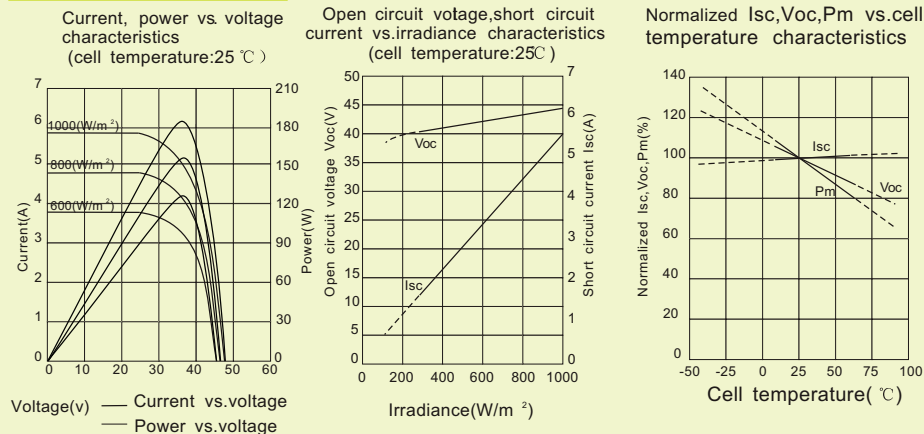
Electro-optical characteristics

Parameters	Symbol	Min.	Typ.	Unit	Conditions
Open circuit voltage	V_{oc}	—	45.4	V	Standard test conditions (STC)
Maximum power voltage	V_{pm}	—	36.5	V	
Short circuit current	I_{sc}	—	5.49	A	Irradiance 1,000W/m ²
Maximum power current	I_{pm}	—	5.05	A	
Power tolerance	---	---	3	%	AM1.5
Encapsulated solar cell efficiency	η_c	—	17.3	%	Module temperature 25°C
Module efficiency	η_m	—	14.5	%	

Applications

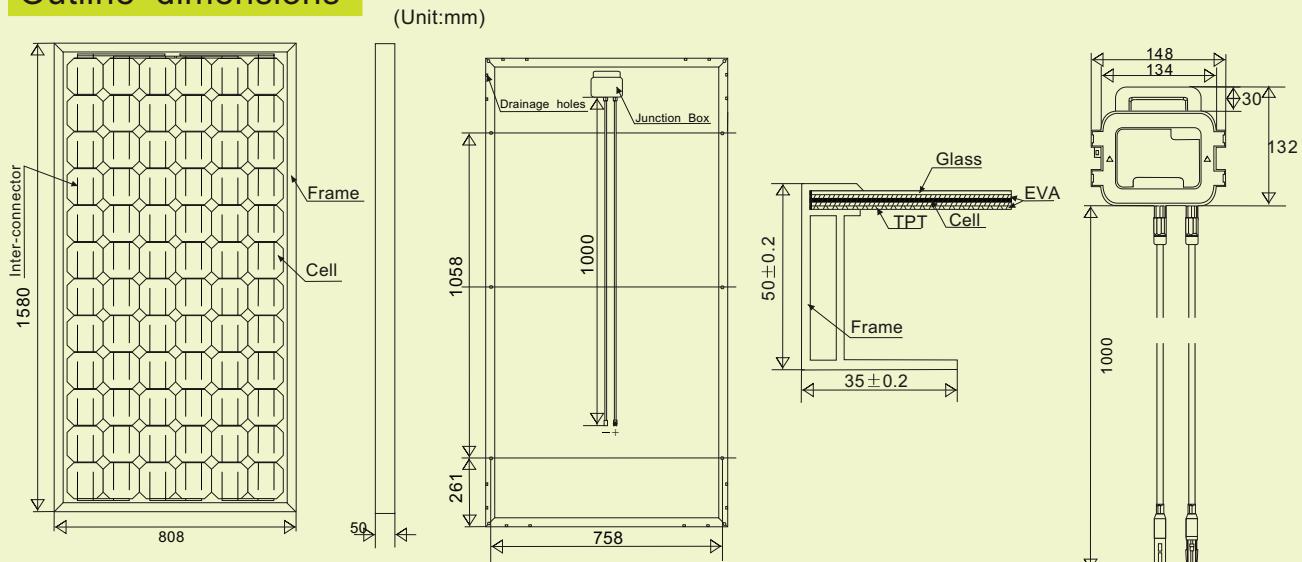
- ☉ Grid connected residential system
- ☉ Office buildings
- ☉ Solar power stations
- ☉ Solar villages
- ☉ Villas, mountain cottages
- ☉ Pumps
- ☉ Lighting equipment
- ☉ Traffic signs
- ☉ Radio relay stations
- ☉ Beacons
- ☉ Telemeter systems
- ☉ Telecommunication systems

Characteristics



In the absence of confirmation by specification sheets, Himin takes no responsibility for any defects that any occur in equipment using any Himin products shown in catalogs, data books, etc. Contact Himin in order to obtain the latest specification sheets before using any Himin products. Specifications are subject to change without notice.

Outline dimensions



Please contact Microstrain on 01 8038388 for further information and pricing. www.microstrain.ie.