



**GREEN ENERGY
SOLUTIONS**



GES-S120/M6H | 166 Half Cell Series

355-380W

120-CELL HALF CUT MONOCRYSTALLINE SOLAR MODULE

Artikel-Nr.: 380-1.2023-R35-C350

20.8%

Module Efficiency

380W

Highest Power Output

12 YEARS

Material & Workmanship Warranty

25 YEARS

Linear Output Warranty

-2.5% First year power degradation

-0.55% Annual degradation

PRODUCT ADVANTAGES



High Power Output

Compared to 158.75 mm module, the power output can increase 25W-30W



High Reliability

Passed 3*IEC standard test



Low Hot-spot Risk

1/2 current reducing the hot spot temperature



Excellent loading capability

2400Pa wind loads, 5400Pa snow loads, 8000Pa extra support



Low NMOT

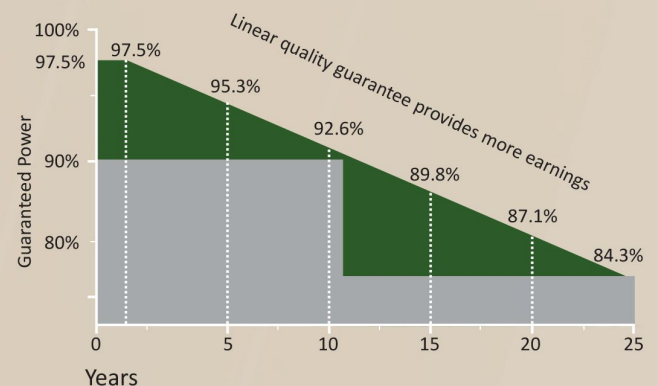
As low as 43°C, improving the power generation efficiency



Half Cell, MBB Technology

Series-then-parallel cell connection design more reliable soldering technology

PRODUCT GUARANTEE



Standard linear power guarantee
VDS linear power guarantee

Certifications of Product and Manufacturer



Green Energy Solutions B.V.

The Hague, The Netherlands

GES-S120/M6H

ELECTRICAL CHARACTERISTICS

STC	355	360	365	370	375	380
Maximum Power at STC (Pmax)*	355W	360W	365W	370W	375W	380W
Optimum Operating Voltage (Vmp)	33.7V	33.9V	34.1V	34.3V	34.5V	34.7V
Optimum Operating Current (Imp)	10.54A	10.62A	10.71A	10.79A	10.87A	10.96A
Open Circuit Voltage (Voc)	40.3V	40.5V	40.7V	40.9V	41.1V	41.3V
Short Circuit Current (Isc)	11.28A	11.35A	11.42A	11.49A	11.56A	11.63A
Module Efficiency	19.4%	19.7%	20.0%	20.2%	20.5%	20.8%
Operating Module Temperature	-40°C to +85°C					
Maximum System Voltage	1500V DC (IEC)					
Maximum Series Fuse rating	20 A					
Power Tolerance	0~+5W					

STC: Irradiance 1000 W/m², module temperature 25°C, AM=1.5; *Measuring tolerance: ±3%

NMOT	355	360	365	370	375	380
Maximum Power at NMOT (Pmax)	266.8W	270.7W	274.3W	278.2W	281.8W	285.4W
Optimum Operating Voltage (Vmp)	31.5V	31.6V	31.8V	32.0V	32.2V	32.4V
Optimum Operating Current (Imp)	8.484A	8.56A	8.62A	8.69A	8.75A	8.81A
Open Circuit Voltage (Voc)	38.2V	38.4V	38.5V	38.7V	38.9V	39.1V
Short Circuit Current (Isc)	8.96A	9.04A	9.1A	9.17A	9.23A	9.29A

NMOT: Irradiance 800 W/m², ambient temperature 20°C, AM=1.5, wind speed 1 m/s;

TEMPERATURE CHARACTERISTICS

Nominal Module Operating Temperature (NMOT)	42±2°C
Temperature Coefficient of Pmax	-0.34%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.040%/°C

MECHANICAL CHARACTERISTICS

Solar Cell	Monocrystalline silicon 166 mm (9BB)
No. of Cells	120 (6 × 20)
Dimensions	1756 × 1039 × 35 mm
Weight	19.8 kgs
Front Glass	3.2 mm tempered glass with AR coating
Frame	Anodized aluminium alloy
Junction Box	IP68 rated (3 bypass diodes)
Output Cables	4.0 mm ² , cable length 350 mm or customized length

PACKING CONFIGURATION

Container	20' GP	40' HC
Pieces per pallet	31	31+2
Pallets per container	6	26
Pieces per container	186	858

