



Standard
Module

BIPV

Solar
Car Sunroof



Standard Module

GSS5 Series 5" Cell Module (160, 165, 170, 175, 180 Wp)

Features

- ◆ 72 presorted high efficient mono-crystalline silicon solar cells
- ◆ Long term stability by quality control and exact tuning of components
- ◆ Strict power measurement that minimizes the power tolerance to +/-3%
- ◆ Sorting limit of module classification to +/-2.5W
- ◆ Modules are manufactured in ISO 9001 and 14001 certificated facilities to guarantee prime quality as well as environment-friendly products

IEC certificate

The test sequence of the IEC 61215 and IEC 61730 confirm that Gloria Solar modules are capable of withstanding the artificial loads of the materials as well as safety qualification. It provides reliable performance and safety for entire range of Gloria Solar modules

REACH certificate

REACH Regulation (EC) No 1907/2006:

Article 7 - Registration and notification of substances in articles

Article 33 - Duty to communicate information on substances in articles

Dimensions

Length * Width (mm)	1599*806
Thickness (mm)	40
Weight (kg)	15.8



Standard Module

GLORIA SOLAR CO., LTD.

5th Floor, Building C, No. 3, Nanke 7th Rd., Sinshih Township,
Tainan county 741 Taiwan, R.O.C.
Tel: +886-6-5059500
Fax: +886-6-5057100
http://www.gloriasolar.com
e-mail: service@gloriasolar.com

GSS5 Series 5" Cell Modules

Electrical characteristics under standard test condition (STC) ¹						
		GSS5-160A-E1	GSS5-165A-E1	GSS5-170A-E1	GSS5-175A-E1	GSS5-180A-E1
Maximum power (P _{max}) ²	W	160	165	170	175	180
Voltage at maximum power (V _{mp})	V	34.78	35.76	36.03	36.13	36.44
Current at maximum power (I _{mp})	A	4.61	4.64	4.72	4.85	4.94
Open-circuit voltage (V _{oc})	V	44.22	44.34	44.66	44.83	45.16
Short-circuit current (I _{sc})	A	4.96	5.05	5.13	5.21	5.31
Module efficiency	%	12.41	12.80	13.19	13.58	13.97

1. STC : AM1.5G, 1000W /m², cell temperature of 25 °C .

2. Power tolerance at maximum power under STC condition = ±3%

Temperature coefficient			
Short-circuit current	α	Ts(Isc)	0.0248%/K
Open-circuit voltage	β	Tc(Voc)	-0.2821%/K
Maximum power	γ	Tc(Pmax)	-0.3812%/K

Performance at low radiance

** ** Module efficiency at 200 W/m², 25°C is lower than that at STC by approximately 6.4% (relative)

System Integration

** Maximum system voltage= 1000 V

** Fuse rating: 10A

