



# Standard Module

## GSM6 Series 6" Cell Module (215, 220, 225, 230, 235 Wp)

### Features

- 60 presorted high efficient multi-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%
- Guarantee positive power tolerance 0/+4.99W
- 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

### UL certificate

UL 1703 2002/03/15 Ed:3 Rev:2004/06/30  
 ULC/ORD-C1703-01 2001/01/01 Second Edition  
 UL and Canadian Standard for Safety Flat-Plate Photovoltaic Modules and Panels

### 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)	1652*992
Thickness (mm)	50
Weight (kg)	22



## GSM6 Series 6" Cell Modules

### Electrical characteristics under standard test condition (STC) <sup>1</sup>

		GSM6-215D-E1	GSM6-220D-E1	GSM6-225D-E1	GSM6-230D-E1	GSM6-235D-E1
Typical power (Pmax) <sup>2</sup>	W	215	220	225	230	235
Voltage at typical power (Vmp)	V	28.50	28.84	29.05	29.38	29.72
Current at typical power (Imp)	A	7.54	7.64	7.77	7.84	7.93
Open circuit voltage (Voc)	V	36.96	37.08	37.26	37.42	37.8
Short circuit current (Isc)	A	8.34	8.38	8.47	8.51	8.59
Module Efficiency	%	13.12	13.42	13.73	14.03	14.34

1.STC : AM1.5G, 1000W /m<sup>2</sup>, cell temperature of 25 °C .

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

### Temperature coefficient

Temperature coefficient current	$\alpha$	Ts(Isc)	0.0254%/K
Temperature coefficient voltage	$\beta$	Tc(Voc)	-0.3003%/K
Peak power temperature coefficient	$\gamma$	Tc(Pmax)	-0.4147%/K

### Performance at low irradiance

\*\* Module efficiency at 200 W/m<sup>2</sup>, 25C is lower than that at STC by approximately 6.3% (relative)

### System Integration

\*\* Maximum system voltage= 1000 V

\*\* Fuse rating : 15 A

