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Solar Panel Guide Specification Data Sheet

Galaxy Energy GmbH GS 240-280 MONO 60-6 GS245mTs-60



GALAXY ENERGY SOLAR MODULE
GS SERIES 250 - 280W MONO 60-6



Energy Systems for the future

# GALAXY ENERGY SOLAR MODULE GS SERIES 250 - 280W MONO 60-6

Edition 🗷

Edition (S)

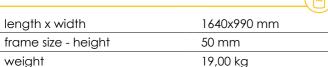
#### G\$240m G\$245m G\$250m G\$255m G\$260m G\$265m G\$275m G\$280m **ELECTRICAL SPECIFICATIONS (STC)** 240 245 250 255 260 265 270 275 280 max power P<sub>MPP</sub> Wp 30,1 30,3 30,6 31,6 31,9 29,9 30,8 31,1 31,3 max power point voltage 8,25 8,44 8,52 8,63 8,70 8,78 8,03 8,14 8,33 max power point current 38,9 37,7 38,1 38,3 38,5 38,7 37,4 37,6 37,9 open circuit voltage 8,61 8,69 8,77 8,85 8,93 9,01 9,09 9,17 9,25 short circuit current 15,40 15,71 16,01 16,32 16,94 17,25 module efficiency % 14,78 15,09 16,63 -0/+2% -0/+2% -0/+2% -0/+2% -0/+2% -0/+2% -0/+2% -0/+2% -0/+2% module power tolerance % 14A 14A 14A 14A 14A 14A 14A 14A 14A maximum reverse current IR

The electronic data are valid for standard test conditions (STC): 1000 W / m²; 25 ° C; AM 1.5

## TEMPERATURE COFFFICIENT

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temperature limit	°C		-40°C~+85°C
nominal cell temperature	NOCT	°C	45+-3°C
power	$P_{MPP}$	%/K	-0,45%/K
voltage	$U_{MPP}$	%/K	-0,35%/K
current	$I_{sc}$	%/K	+0,055%/K
open circuit voltage	$U_{oc}$	%/K	-0,35%/K
short circuit current	I <sub>sc</sub>	%/K	+0,055%/K

#### **DIMENSIONS AND WEIGHT**

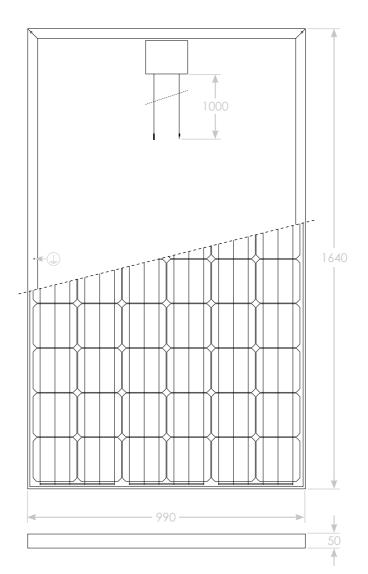


#### **BASIC DATA**

60 pieces
156x156mm; 6lnch
Monocristalline-Si
6 pieces - parallel
Galaxy Box - IP65
4mm² / 1000mm
GE4 with Goldcontact
3,2mm annealed
anodized aluminum

### **LIMITS**

	17
maximum system voltage	1000 V (IEC) DC
maximum weight load	550 kg/m²
fire class	B1roof



**CERTIFICATES AND GUARANTEES** 

# A CE POPULATION DEC















#### **Aluminium junction boxes**

All module types are available with aluminium junction box.

- Absolute fire safety
- Low resistance
- 100 % ammonia resistance

#### **Galaxy Energy junction boxes**

Our own-developed junction box for more performance and securtity.

- Low resistance
- Better cooling effect
- Goretex membrane
- 1 m cable length

#### 3,2 mm tempered textured glass

The ideal solution for high light transmission and optimum stability - the structure prevents the sun rays from reflecting on the pane, that ensures as much light as possible getting on the



#### Solar glasses without AR-coating

Many module manufacturers nowadays use solar glasses with chemically applied anti-reflection-

The short-living AR-coating increases the module performance by 3-5%. Already within the first years, the modules lose 3 – 5 performance due to the loss of this coating. Due to that reason we exclusively use modules without AR-coating.

#### Fully automated soldering

We exclusively use cells with the highest efficiencies possible. All cells are soldered almost contactless and are stringed fully-automated.

#### 100% EL controlled

All modules are checked for electroluminescene, that's how me make sure that our modules leave production without any micro cracks.



Sturdy hollow chamber frame profiles with a height of 50mm are used. In the edges the frame is pressed with a reverse angle. This method prevents the modules from extreme twist and thereby prevents micro cracks

in the cells. Thus a continuously high performance can be guaranteed.

#### Calibration frame

For a perfect mounting work and an optically harmonic pv plant all our modules are calibrated for exact squareness.

#### Double bonding

The double bonding introduced by us cares for absolute tightness between frame and laminate and is due to that an absolutely necessary criterion. It furthermore belongs to the Galaxy Standard and guarantees high longevity for all our module types.



#### Warranty

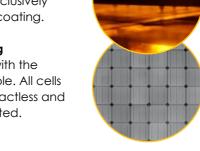
We, as multiple awarded company, keep our promises – always.

- 10 years product warranty
- 25 years performance guarantee
- DIN ISO and TÜV certified
- Plus tolerance performance bond
- Fire protection class B1roof
- High capacitance up to 550kg/m<sup>2</sup>

#### Vertical packaging

All modules are packed vertically from us, due to that fact the laminates have no chance to swing or twist also with ungentle

transport conditions. The accruement of micro cracks is consequently reduced to an absolute minimum.







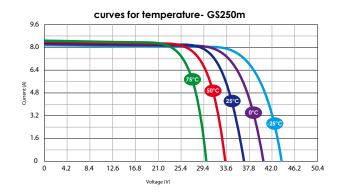


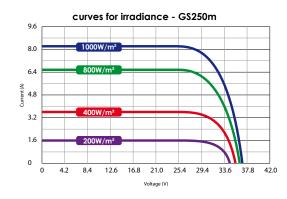
The precision assembly of all of these components is the signature of the Galaxy modules.

In our DIN ISO9001 and DIN 14001 certified company, quality and environmental friendliness are at the first place. All components such as cells, glass, junction box and cables are subject to constant controls.

Every module is flashed before and after lamination and is EL-tested to detect any possible micro cracks. This very fact enables us to offer a 10 year product guarantee. The combination of the performance guarantee for 25 years ensures a secure investment for the future.

Galaxy Energy guarantees optimum quality and a sustained performance of the module.













Intersolar AWARD 2013 Solar Projects in Europe



German middle class Summit 2014 TOP 100 Top Innovator



German Solar Award 2014 Solar architecture and urban development

DLG Fokus Test 2011

PLUS X AWARD 2012 best product of the year innovation Award 2013





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## **Energy Systems for the Future**

Specifications are subject to change without prior notice.

www.galaxy-energy.com

