

# GG40P6L

## 145 Wp - 155 Wp

### Solar modules glass - glass

Real World Tested • Globally Trusted



- Excellent Power Tolerance +3/0 %
- CE Mark 'safety laminated glass'
- 10 Year Limited Warranty Product
- 25 Year Power Output Warranty
- Modules with Efficiency up to 10,3%
- VDE Certified for Worldwide Applications

## Why Siliken?

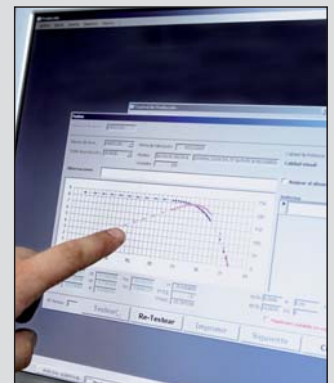
- Our global success has established a solid foundation to service the long-term needs of the solar industry.
- With over 200 MW installed worldwide, we have built a respected brand by consistently providing a quality product with proven performance.
- Our firm commitment to R&D allows us to reduce costs and permanently improve efficiency. What's more, it enables us to improve our existing products and develop new technologies in the renewable energy field.



## Siliken Reliability

The Siliken modules are certified according to VDE standards. The high quality and reliability ensure the prompt return of investment for any PV installation.

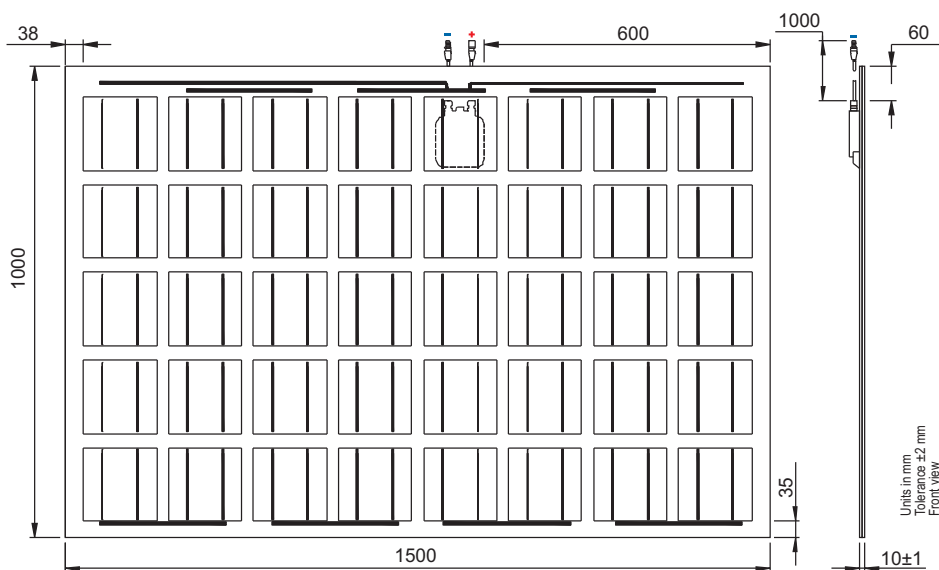
Each module goes through its testing phases, including strict power production verification and resistance tests in radiation simulators. With innovative products and solutions successfully implemented around the world, Siliken is a recognized global leader in solar power.



# GG40P6L

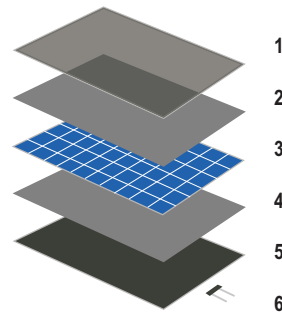
# 145 Wp - 155 Wp

## Solar modules glass - glass

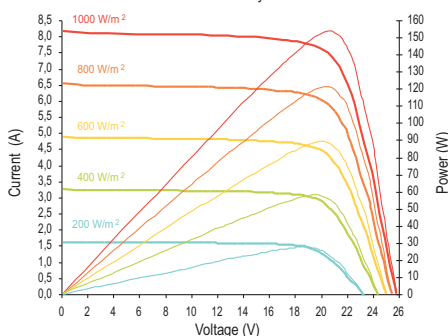


### Constructive Characteristics

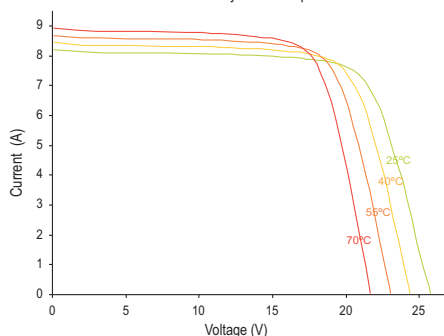
- 1 GLASS PLATE
- 2 AND 4 EVA
- 3 CELLS
- 5 BACKSIDE GLASS
- 6 JUNCTION BOX



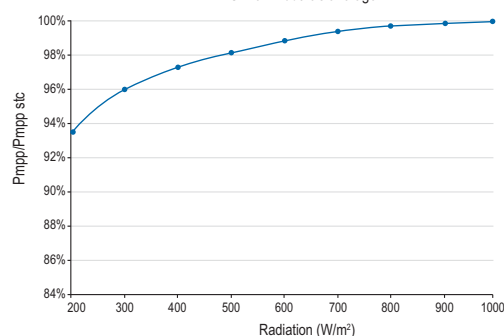
GG40P6L - 155 Wp  
I-V and Pmax characteristics with a variety of radiation levels at 25°C



GG40P6L - 155 Wp  
I-V characteristics with a variety of cell temperatures at 1.000 W/m²



Weak light performance at Pmp



### Mechanical Data

Dimensions (LxWxD)	1500 x 1000 x 10 mm
Thickness (Junction Box included)	32,5 mm
Weight	35 kg
Output Cables	Symmetrical length cable 1 m Ø4 mm <sup>2</sup> , doble insulation coating, halogen free, UV resistance
Junction Box	IP-65 rated with bypass diodes
Anchorage or installation	It has to be installed with the correct fixation elements for safety glass in the 4 edges or in the 2 long edges.
Front Glass	4 mm low iron tempered glass with high transmissivity
Backside Glass	colourless tempered glass of 4 mm.
Solar Cells	40 Poli-crystalline cells 156 x 156 mm

### Electrical Data

Parameter	Symbol	145 Wp	150 Wp	155 Wp
Maximum power at STC (+3/0 %)	$P_{mp}$ (Wp)	145	150	155
Voltage at Maximum Power	$V_{mp}$ (V)	19,4	19,5	19,6
Current at Maximum Power	$I_{mp}$ (A)	7,45	7,68	7,90
Open Circuit Voltage	$V_{oc}$ (V)	24,4	24,6	24,6
Short Circuit Current	$I_{sc}$ (A)	8,06	8,20	8,40
Efficiency at STC	$\eta$ (%)	9,64	9,98	10,32
Fill Factor	FF	0,735	0,742	0,749
Temperature Coefficient of Pmp	$T_k P_{mp}$ (%/°C)	-0,43		
Temperature Coefficient of Voc	$T_k V_{oc}$ (%/°C)	-0,356		
Temperature Coefficient of Isc	$T_k I_{sc}$ (%/°C)	+0,062		
Normal Operating Cell Temperature	NOCT (°C)	49±2		

Values at Standard Test Conditions STC: Irradiance 1.000 W/m<sup>2</sup>, Air Mass AM 1,5 and cell temperature 25°C

**WARNING:** Read the instruction manual carefully before using this product  
**NOTE:** Siliken Modules, S.L.U. reserves the right to modify this product without prior notice

### Certifications

VDE Certified	IEC 61215 / IEC 61730
ISO 9001:2000	N° ES08 / 5170
ISO 14001	N° ES09 / 6520
EC Declaration of conformity (safety laminated glass)	EN 14449:2005

### Tested Operating Conditions

Temperature	-40 °C a +85 °C
Static Load	2400 Pa
Max Load	5400 Pa
Pendulum Impact Resistance	1 (B) 1
Thermal transmission coefficient	5,33 (W/m <sup>2</sup> k)
Transparency	35%

### Warranty

- 25 year limited warranty of 80% output power
- 10 year limited warranty of 90% output power
- 10 year limited warranty of materials and workmanship

### MANUFACTURED IN SPAIN BY

**Siliken Modules, S.L.U.**  
C/ Massamagrell, 40 • Pol. Ind. L'Horteta.  
46138 Rafelbunyol - Valencia - Spain.  
Phone: (+34) 902 41 22 33 - Fax: (+34) 96 141 05 14 • www.siliken-modules.com

### A SILIKEN GROUP COMPANY

**Siliken S.A.**  
Ronda Isaac Peral y Caballero, 14. Parque Tecnológico.  
46980 Paterna - Valencia - Spain.  
Phone: (+34) 902 41 22 33 - Fax: (+34) 96 070 92 65 • www.siliken.com

You will find a digital version of this data sheet at [www.siliken.com](http://www.siliken.com)  
We have printed this for our customers on paper that guarantees the smallest environmental impact, and that has obtained the following ecological certifications:



ISO 14001 (International norm on Environmental Management)

