

Poly-crystalline Solar Module

Engcotec HG-250P-290P

HG-250P
HG-280P

HG-255P
HG-285P

HG-260P
HG-290P

HG-265P

HG-270P

HG-275P



- High-efficiency poly-crystalline silicon cells
- Manufacturer's power tolerance: $\pm 3\%$
- Ready-made with Tyco plugs
- Corrosion-resistant, double-layered aluminium frame
- Simple, cost-saving assembly
- Robust, flat junction box
- Tempered low-iron glass for better light transmission
- Manufacturer's power warranty 25 years:
12 years on 90% of nominal power
25 years on 80% of nominal power
- Manufacturer's product guarantee: 5 years.

Certificates

High quality standards proofed by the following certificates:

- Produced acc. ISO 9001
- VDE IEC 61215 ed. 2
- Safety Class II

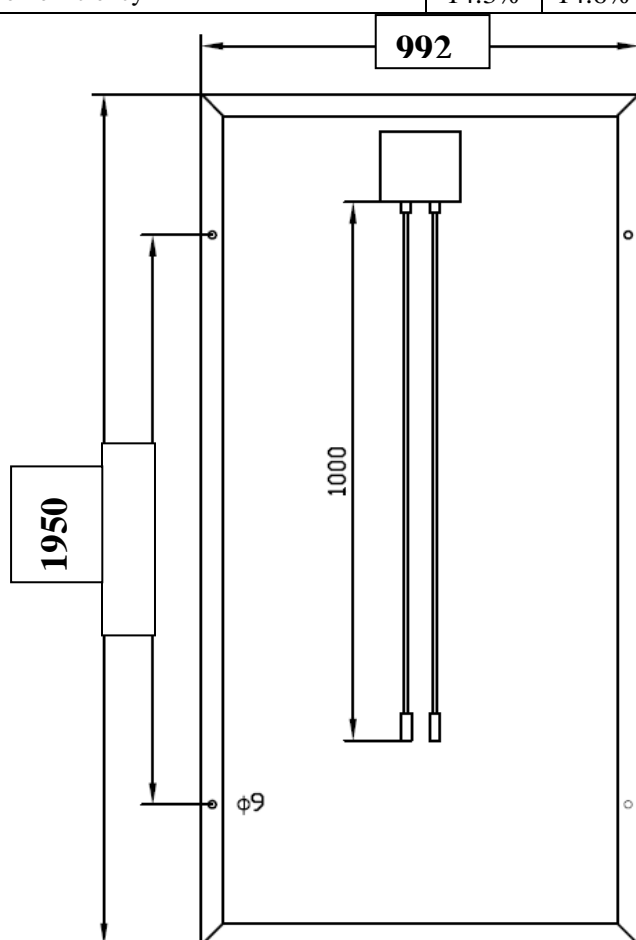
Engcotec HG-250P-290P

Engcotec solar modules are designed and constructed to provide high performance and reliability. We constantly improve our products to ensure product performance and reliability.

The mono-crystalline cells lie behind a hardened-glass glazing and are embedded in transparent EVA (ethylenevinyl-acetate).

Data Sheet Solar Module Engcotec HG-250P-290P

Electrical Data	HG-250 P	HG-255 P	HG-260 P	HG-265 P	HG-270 P	HG-275 P	HG-280 P	HG-285 P	HG-290 P
Max. Power PMPP	250 W	255 W	260 W	265 W	270 W	275 W	280 W	285 W	290 W
Voltage at maximum power point V_{MPP}	35.6 V	35.8 V	35.9 V	36.0 V	36.7 V	36.9 V	37.2 V	37.7 V	37.8 V
Current at maximum power point I_{MPP}	7.02 A	7.12 A	7.24 A	7.36 A	7.36 A	7.45 A	7.53 A	7.57 A	7.67 A
Open-circuit voltage V_{OC}	43.4 V	43.5 V	43.7 V	43.8 V	44.0 V	44.3 V	44.4 V	44.9 V	45.1 V
Short-circuit current I_{SC}	8.02 A	8.04 A	8.05 A	8.04 A	7.94 A	8.02 A	8.07 A	8.15 A	8.20 A
Module efficiency	12.9%	13.1%	13.4%	13.7%	13.9%	14.2%	14.4%	14.7%	14.9%
Cell efficiency	14.3%	14.6%	14.9%	15.1%	15.4%	15.8%	16.0%	16.4%	16.6%



Mechanical Data

Dimensions (L x W x H)	1950 x 992 x 50 mm
Weight	appr. 23.5 kg

Characteristic Data

Cells per module	72
Cell type	poly-crystalline in series
Connections	Ready-made with Tyco plugs
Cable lengths	100 cm
NOCT	49°C

Limit Values

Max. system voltage	1000 V
Tested wind resistance	200 km/h
Operating temperature	-40°C - +5°C

Temperature Coefficients

Pm	-0.490%/°C
Isc	+0.050%/°C
Open-circuit voltage	-152mv/°C

Certificates

VDE IEC 61215 ed. 2	
ISO 9002	



Engcotec Advanced Technology GmbH, P.O. Box 100852, 70011 Stuttgart / GERMANY

Phone +49 (0)711 222 96 76, Fax +49 (0)711 222 96 777

Email: engcotec@engcotec.de, website: www.engcotec.de