



## ***HS235P PLUS***

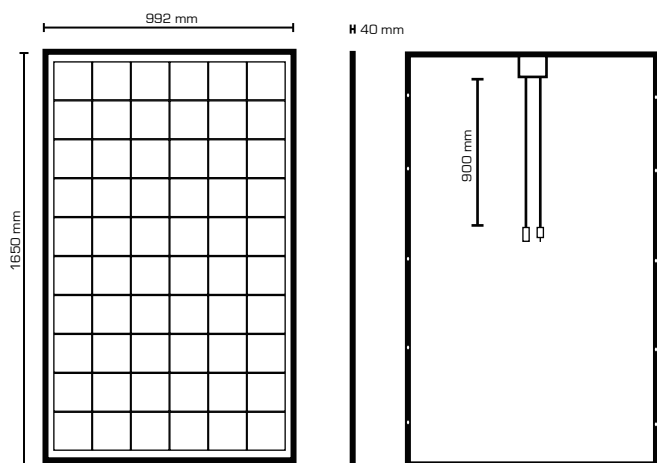
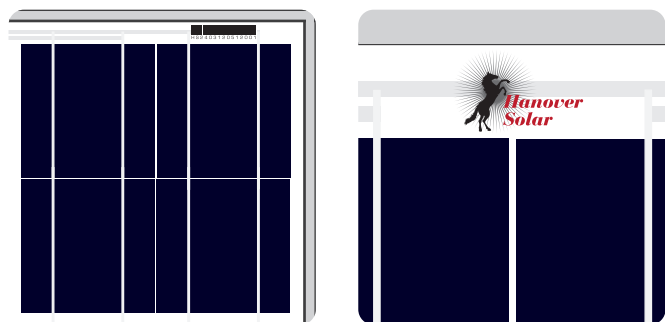
***Polycrystalline silicon high-power panel  
with a peak power rating of 235W***

- *0/+5W output tolerance ensure a high productivity*
- *12 years long-term product & 25 years achievement warranty by Germany*



# Hanover Solar

## HS235P PLUS

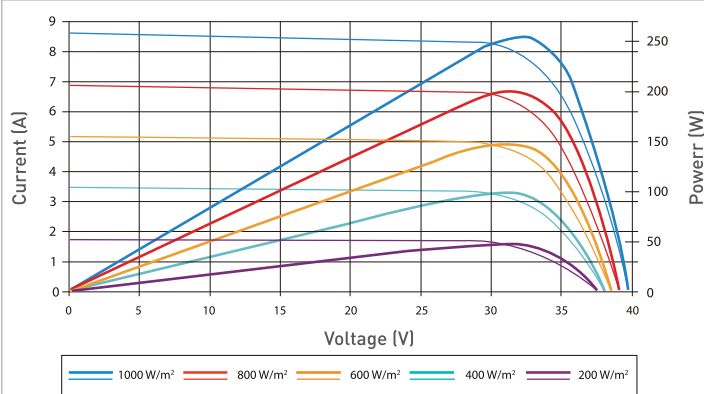


### ELECTRICAL DATA

Measured at Standard Test Conditions (STC): irradiance of 1000W/m<sup>2</sup>, AM 1.5, and cell temperature 25° C

Module Type		HS235P
Peak Power (0/+5W)	P <sub>max</sub>	235 W
Cell Efficiency	η	18.3 %
Panel Efficiency	η	15.0 %
Rated Voltage	V <sub>mpp</sub>	30.6 V
Rated Current	I <sub>mpp</sub>	7.68 A
Open Circuit Voltage	V <sub>oc</sub>	36.5 V
Short Circuit Current	I <sub>sc</sub>	8.22 A
Maximum System Voltage	TÜV	1000 V DC
Temperature Coefficients	Power (P)	-0.45%/° C
	Voltage (V <sub>oc</sub> )	-0.35%/° C
	Current (I <sub>sc</sub> )	0.060%/° C
NOCT		45° C +/- 2° C
Series Fuse Rating		15 A

### I-V CURVE



### WARRANTY & CERTIFICATE

Warranty period	12 years
Guaranteed power output	12 years: 90 % of nominal power rating
	25 years: 80 % of nominal power rating
Certificates	TÜV: IEC 61215, IEC 61730; CE; CEC

### MECHANICAL CHARACTERISTICS

Solar Cell	polycrystalline (156 x 156 mm)
Cells Quantity	60 (6 x 10)
Dimensions	1650 x 992 x 40 mm
Weight	19.5 kg
Glass	3.2 mm tempered glass
Frame	anodized aluminium alloy
Junction Box	TÜV Certified / IP65 / IP67
Output Cables	900 mm / 4.0 mm <sup>2</sup>



Clean Energy Council

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