



**25**  
YEARS  
80% of NPR

**12**  
YEARS  
90% of NPR

**12**  
YEARS  
PRODUCT WARRANTY



**CUSTOMIZED**

Our rich experience & know-how can support your customized project for BIPV and special modules. Our Team will work close to you to realize your next outstanding design.



**HIGHEST ROI**

Hanover Solar modules are built with the best technology. The highest efficiency and all plus tolerance of our modules will improve your ROI.



**COMPATIBLE FIS**

Our modules are equipped with a special frame compatible with Fast Installation System. FIS will help to reduce installation time and cost.



✓ TÜV Certified Resistance to Salt Spray

✓ TÜV Certified Resistance to PID



✓ TÜV Certified Resistance to Ammonia



[www.hanoversolar.de](http://www.hanoversolar.de)



[info@hanoversolar.de](mailto:info@hanoversolar.de)



[facebook.com/hanoversolar](https://facebook.com/hanoversolar)



Bundesministerium  
für Wirtschaft  
und Technologie



ISTITUTO  
GIORDANO





**ULTRA  
BLACK**

**25  
Years**

**GUARANTEED**

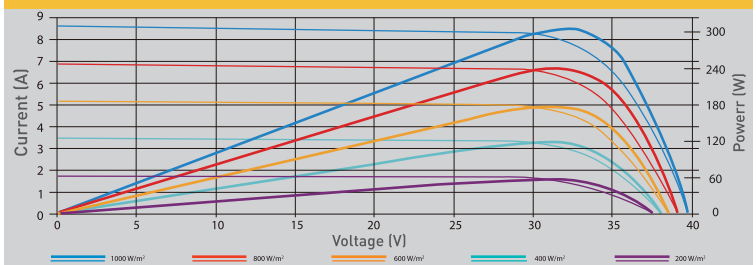
### ELECTRICAL DATA

Module Type		HS300M-30D
Peak Power	P <sub>max</sub>	300W
Rated Voltage	V <sub>mpp</sub>	32.54V
Rated Current	I <sub>mpp</sub>	9.22A
Open Circuit Voltage	V <sub>oc</sub>	40.11V
Short Circuit Current	I <sub>sc</sub>	9.61A
Series Fuse Rating		20A
Maximum System Voltage	TÜV	1500V DC
Test Standard Condition	AM=1.5 E=1000/m <sup>2</sup> TC=25°C	
Temperature Coefficients:	P <sub>max</sub> -0.43%/°C; V <sub>oc</sub> -0.32%/°C; I <sub>sc</sub> 0.05%/°C	
NOCT		45°C +/- 2°C

### MECHANICAL CHARACTERISTICS

Solar Cell	monocrystalline (156 x 156 mm)
Cells Quantity	60 (6 x 10)
Dimensions	1650 x 992 x 40 / 35 mm
Glass	3.2 mm tempered glass
Frame	black anodized aluminium alloy
Junction Box	TÜV Certified IP68
Output Cables	1100 mm / 4.0 mm <sup>2</sup>

### I-V CURVE



**HANOVER NEW ENERGY PTY LTD**  
 7 Koorabel Place  
 Baulkham Hills NSW 2153  
 AUSTRALIA  
 +61 (0) 881 215 838

**PT. HANOVER SOLAR INDONESIA**  
 Jalan Budi Kemuliaan Blok VI,  
 Luuk Baja, Batam 29432  
 INDONESIA  
 +62 (0) 811 776 8838



**HANOVER SOLAR GmbH**  
 Herrenstrasse 13  
 D30159 Hannover  
 GERMANY  
 +49 (0) 511 711 090 0539

**HANOVER SOLAR BV**  
 Vijfhuizenberg 185  
 4708 AJ Roosendaal  
 NETHERLANDS  
 +31(0) 165 203 842