



**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



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Bundesministerium für Wirtschaft und Technologie

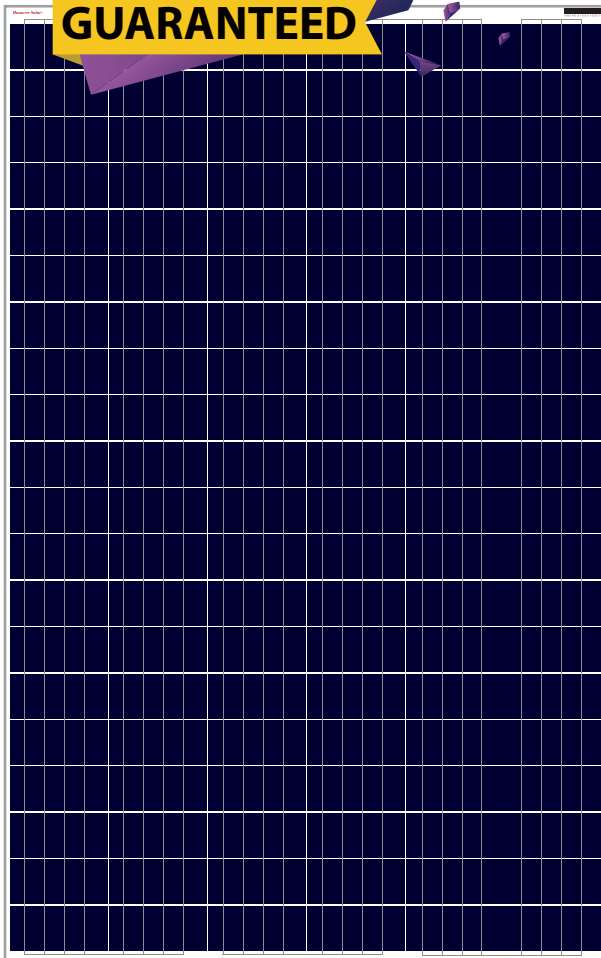




**POLY  
Half Cell**

**25  
Years**

**GUARANTEED**



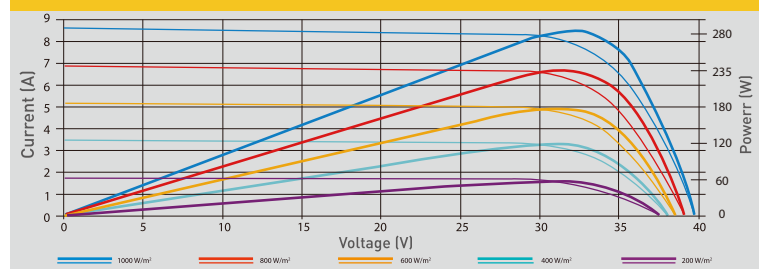
### ELECTRICAL DATA

Item No.	Pmax	Vmpp	Imp	Voc	Isc
HS290P-30	290W	31.53V	9.20A	38.70V	9.59A
HS285P-30	285W	31.40V	9.08A	38.50V	9.48A
HS280P-30	280W	32.32V	8.94A	38.20V	9.38A

### MECHANICAL CHARACTERISTICS

Solar Cell	polycrystalline (156 x 78 mm)
Cells Quantity	120 (6 x 20)
Dimensions	1670 x 992 x 40 / 35 mm
Glass	3.2 mm tempered glass
Frame	anodized aluminium alloy
Junction Box	TÜV Certified IP68
Series Fuse Rating	20A
Maximum System Voltage	1500V DC TÜV
Output Cables	1100 mm / 4.0 mm <sup>2</sup>
Test Standard Condition	AM=1.5 E=1000/m <sup>2</sup> TC=25°C
NOCT	45°C +/- 2°C
Temperature Coefficients:	Pmax -0.43%/°C; Voc -0.32%/°C; Isc 0.05%/°C

### I-V CURVE



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