EXCELLENT GLASS/ GLASS P60
balance | smart | black
POLYCRYSTALLINE 270-280 WP

Long lifetime even under extreme conditions
2 x 2 mm strong, hardened and scratchresistant solar glass
Protection of cells against microcracks through double glass composite
Maximum test load 8.100 Pascal
Stability optimized for increased requirements due to slipping snow loads (optional)
Extended hail impact tests to 30 mm

Optimized for performance
PID-free polycrystalline high performance solar cells
Antireflective coated solar glass
Low-light optimized
Positively classified -0/+4.99 Wp
Industry-leading NMOT values

Highest quality standards
Manufactured according to DIN EN ISO 9001:2015
DIN EN ISO 14001:2015
BS OHSAS 18001:2007
PV-module type approval according to IEC 61215:2016
PV-module safety qualification according to IEC 61730:2016

Guaranteed performance
30 years of linear performance guarantee
20 years product guarantee, optional extension to 30 years
Total Care for the entire system (optional)

1 For detailed information please consult the CS Wismar GmbH warranty conditions
2 See backside for detailed test loads
3 Subject to recertification
**EXCELLENT GLASS/GLASS 270 | 275 | 280 P60**

**Performance STC**
Under standard Test Conditions STC:
- 1000 W/m²; spectrum AM 1.5;
- Cell temperature 25°C
Measurement tolerance STC:
Pmpp ±3%; Isc ±10%; Uoc ±10%

**Performance NMOT**
Nominal operating temperature of module
800 W/m², NMOT, AM 1.5

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**Nominal Power Pmpp (Wp)**
- 270
- 275
- 280

**Open Circuit Voltage Uoc (V)**
- 38.42
- 38.60
- 38.74

**Voltage Umpp (V)**
- 31.03
- 31.26
- 31.47

**Short Circuit Current Isc (A)**
- 9.36
- 9.44
- 9.53

**Current Impp (A)**
- 8.74
- 8.82
- 8.91

**Efficiency η (%)**
- 15.9
- 16.2
- 16.5

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**Reduction of module efficiency at reduction from 1000 W/m² to 200 W/m²: 1.1% ± 0.2% (relative)**

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**Other Technical Specification**
- Weight: 1000 V
- Reverse Current Load IR: 22.0 ± 0.5 kg
- Junction box: 15 A
- 3 bypass diodes
- IP 67
- MC4
- Class C
- Operating temperature: -40°C ... +85°C
- Design load: snow: 5.400 Pa
- Design load: wind: 2.400 Pa
- Max test load: 3.600 Pa

**Material Used**
- Type of cells: polycrystalline
- Front: hardened solar glass
- Frame: anodized aluminium
- Frame height: 35 mm

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**Performance**
Additional yield with glass glass modules

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**Glass/Foil Modules**

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**Industry standard performance guarantee**
87% after 30 Years

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**Clamping area**
Approved up to 2.400 Pa
Approved up to 5.400 Pa
No contact between junction box and mounting profile permitted in this area.