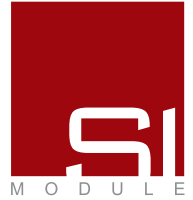


SI-SAPHIR

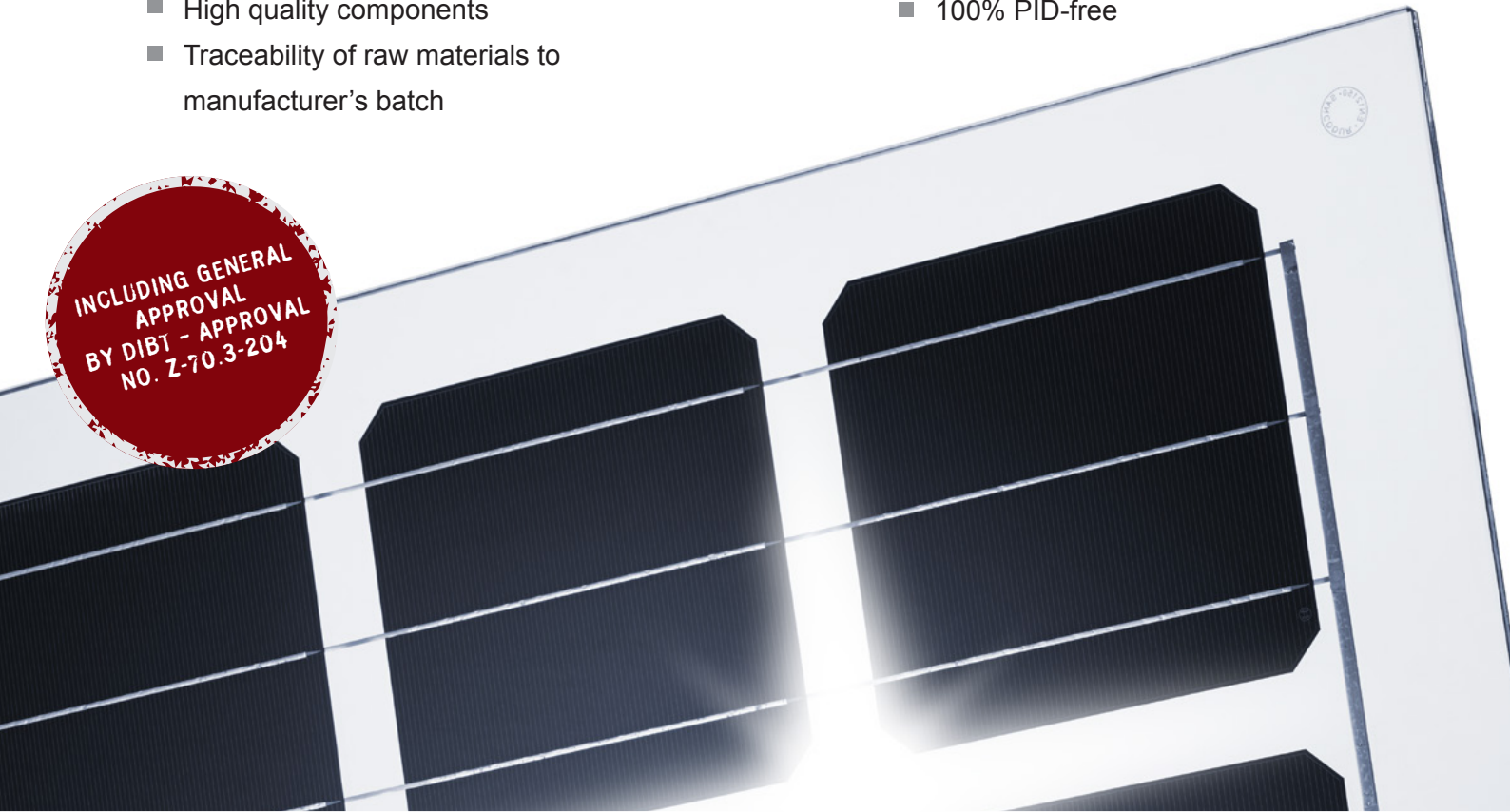
M155 - M160

MONOCRYSTALLINE DOUBLE GLAZED MODULE



The frameless double glazed module sets itself apart through its particularly high cell spacing. This design module allows 40 % of the light to shine through – ideal for stylish roofing and facades. In our proven SI Module quality with European components.

- Laminated safety glass for high level of stability
- Particularly good diffuse light output
- 10-year product guarantee and 30-year capacity guarantee
- High quality components
- Traceability of raw materials to manufacturer's batch
- High snow and wind loads (7200 Pa)
- Top level yield throughout the module's entire service life
- Extra yield through positive sorting
- 100% PID-free



SI Module Manufacturing

- Produced exclusively in Freiburg, Germany
- Consistent quality assurance
- 100 % EL tested
- Careful selection of components
- Continual process development
- Certified production facility
- Outstanding carbon footprint reductions

SI Module Technology

- 3 busbar connector
- Fully insulated cells
- Interconnection with state-of-the-art laser technology
- Anti PID technology
- Ammonia corrosion testing IEC 62716
- Salt spray test IEC 61701

Premium-Module

100%

Made in Germany

Performance data under standard test conditions (STC)

(STC: 1000 W/m², module temperature 25 °C, AM 1,5 – measurement tolerance +/- 3%)

bifacial cells

incl. rear side according to groundreflection

		with standard mono-cells		with bifacial cells		
Module class		M155	M160	B175 (10%) e.g. ground, water	B175 (20%) e.g. light concrete, grass	B175 (30%) e.g. snow, white gravel
Nominal capacity	P _{max} [Wp]	155	160	170.5	178.2	186
Short-circuit current	I _{sc} [A]	9.4	9.5	10.34	10.8	11.28
Open circuit voltage	V _{oc} [V]	23.3	23.3	23.3	23.3	23.4
Power	I _{mpp} [A]	8.6	8.7	9.46	9.89	10.32
Voltage	V _{mpp} [V]	18.4	18.5	18.02	18.02	18.02
Max. system voltage	1000 V					
Classification tolerance	-0/+4,99 Wp					
Max. reverse current	21 A					

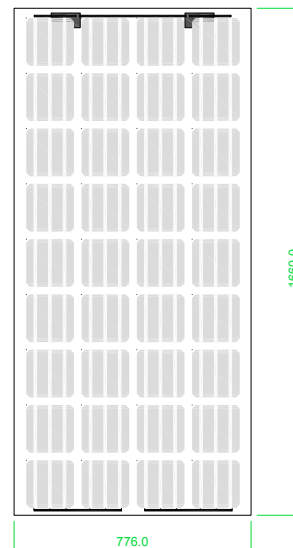
Including general approval by DIBT – approval no. Z-70.3-204



Technical Details

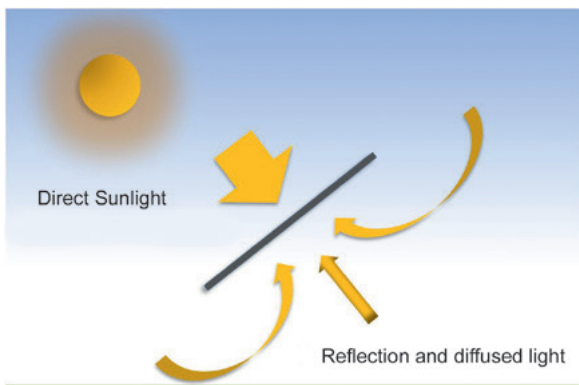
Cell count	40
Cell types	6" monocrystalline
Glass	2 x 4 mm ESG glass
Rear surface	Long-term UV-resistant rear glass surface
Connection box	IP65
Connector	TE-Slim Line
Conductor cross-section	4 mm ²
Connecting cable length	1 x 0.4 m enclosed
Bypass diodes	Schottky SMD (x 3)
Weight	38 kg
Module dimensions	1660 x 776 mm

Dimensions SI-Saphir M155-M160

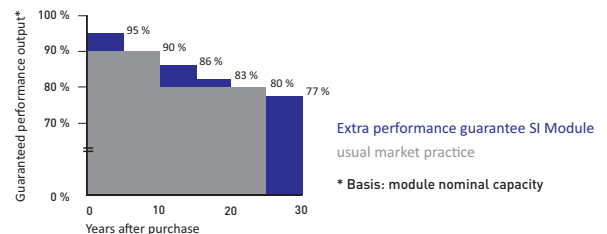


Thermal Parameters

P _{max} temperature coefficients γ	-0.43 %/K
V _{oc} temperature coefficients β	-0.33 %/K
I _{sc} temperature coefficients α	+0.04 %/K



Performance Guarantee



We will be happy to send you our guarantee terms and conditions in full.

