

Schüco PV modules MPE from the PG 04 series

Technical information for the power classes 240 to 250 W_p



High-power polycrystalline photovoltaic modules

The Schüco PV modules of the PG 04 series featuring polycrystalline solar cells are characterised by high module efficiency of up to 15.5% and a positive output tolerance of up to +5 W_p. The rated power in the delivery status is thereby reached or exceeded.

Advantages at a glance

- Positive output tolerance of up to +5 W_p
- 3.2 mm anti-reflective glass for high solar yields
- 10-year product guarantee*
- 25 year performance guarantee on 80 % rated power under standard test conditions*
- Approved for snow loads of up to 5,400 Pa, tested in accordance with IEC 61215
- Warp-resistant anodised aluminium frames
- Individual recording of the electrical characteristic values for each PV module
- High operational reliability: Three bypass diode bridges for reliable operation
- Schüco tested quality: Every PV module undergoes a visual inspection and electrical quality test.

* In accordance with the warranty conditions of Schüco International KG



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PV modules*			
Product name	MPE 240 PG 04	MPE 245 PG 04	MPE 250 PG 04
Schüco item number ¹⁾	274 482 or 274 561	274 483 or 274 562	274 559 or 274 563
Cell type ¹⁾	Polycrystalline, 3 busbars		
Number of cells / cell arrangement	60 / 6 × 10		
Cell dimensions	156 × 156 mm		
Module efficiency	14.9 %	15.2 %	15.5 %

¹⁾ Deviations of colour may occur between modules with different item numbers.

Electrical characteristics				
Rated power (P_{mpp})	240	245	250	W_p
Output tolerance (ΔP_{mpp})	+5 / -0			W_p
Minimum output ($P_{mpp\ min}$)	240	245	250	W_p
Rated voltage (U_{mpp})*	29.9	30.0	30.1	V
Rated current (I_{mpp})*	8.03	8.17	8.30	A
Open circuit voltage (U_{oc})*	37.0	37.1	37.2	V
Short circuit current (I_{sc})*	8.59	8.74	8.87	A
Temperature coefficient α (P_{mpp}) ²⁾	-0.43			% / °C
Temperature coefficient β (I_{sc}) ²⁾	+0.07			
Temperature coefficient χ (U_{oc}) ²⁾	-0.34			
Temperature coefficient ϵ (U_{mpp}) ²⁾	-0.34			
Normal Operating Cell Temperature (NOCT) ³⁾	45 ± 2			°C
Max. permissible system voltage	1000			V
Reverse current resistance	15			A

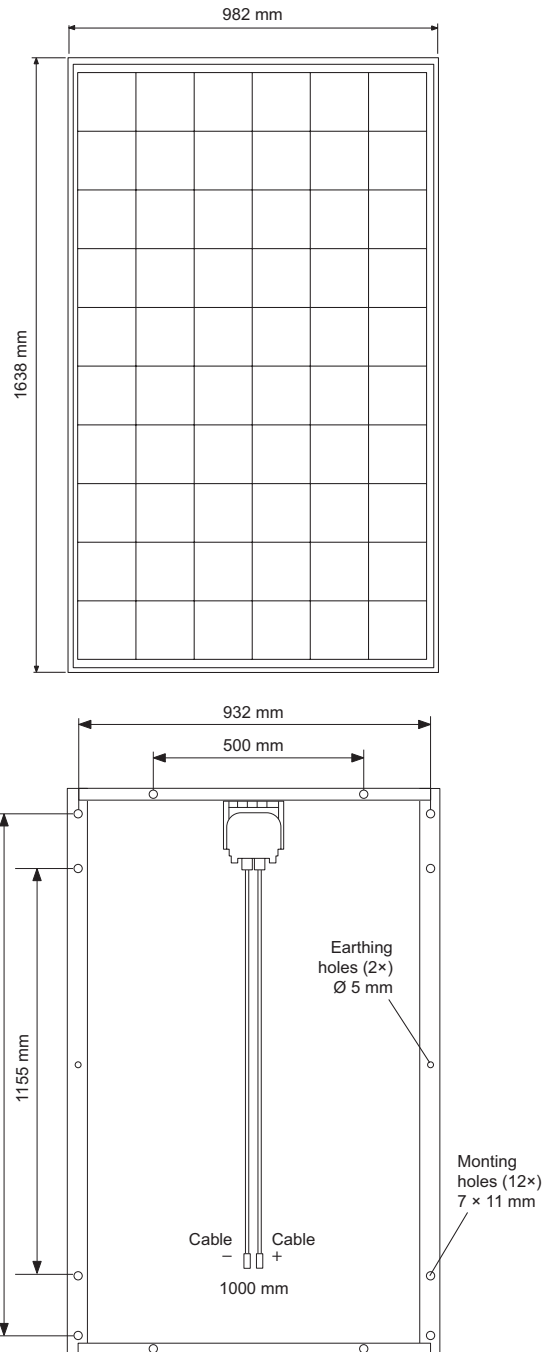
²⁾ Irradiance 1,000 W/m², Air Mass 1.5, cell temperature 25 °C, PV modules show a degradation of the electrical values. This is degressive first of all after commissioning and then switches to linear.

³⁾ Irradiance 800 W/m², ambient temperature 20 °C, wind speed 1 m/s. All electrical characteristic parameters, with the exception of the rated power, are subject to a tolerance of +/-5 %. The electrical characteristic parameters are typical values based on the performance data of produced modules. The accuracy of the data for future production batches cannot be guaranteed.

Mechanical characteristic parameters	
Aluminium frame design	Anodised, silver (similar to RAL 7035)
Front glass	Anti-reflective coated single pane safety glass 3.2 mm
Module weight	19 kg
External dimensions (L × W × H)	1638 × 982 × 40 mm
Cable length	1,000 mm
Connection system	T4 connector system
Junction box	IP65, 3 diodes
Packing unit (variable)	Module 1
Schüco clamp holder	Type 44

Qualification and warranties ⁴⁾	
Product standard	IEC 61215, EN 61730
Extended product warranty	10 years
Performance warranty on 90 % $P_{mpp\ min}$	12 years
Performance warranty on 80 % $P_{mpp\ min}$	25 years

⁴⁾ In accordance with the warranty conditions of Schüco International KG



* The availability of the performance class is checked on request.