

Schüco PV modules MPE from the PG 60 series

PV modules*			
Product name	MPE 240 PG 60 CA	MPE 245 PG 60 CA	MPE 250 PG 60 CA
Schüco item number ¹⁾	274 435	274 436	274 551
Cell type ¹⁾	Polycrystalline, 3 busbars		
Number of cells / cell arrangement	60 / 6 × 10		
Cell dimensions	156 × 156 mm		
Module efficiency	14.5 %	14.8 %	15.1 %

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})*	29.6	30.1	30.4	V
Rated current (I_{mpp})*	8.11	8.15	8.23	A
Open circuit voltage (U_{oc})*	37.0	37.4	37.7	V
Short circuit current (I_{sc})*	8.63	8.70	8.79	A
Temperature coefficient α (P_{mpp}) ²⁾	-0.45			% / °C
Temperature coefficient β (I_{sc}) ²⁾	+0.06			
Temperature coefficient γ (U_{oc}) ²⁾	-0.34			
Temperature coefficient ϵ (U_{mpp}) ²⁾	-0.46			
Normal Operating Cell Temperature (NOCT) ³⁾	45 ± 3			°C
Max. permissible system voltage	1000			V
Reverse current resistance	15			A

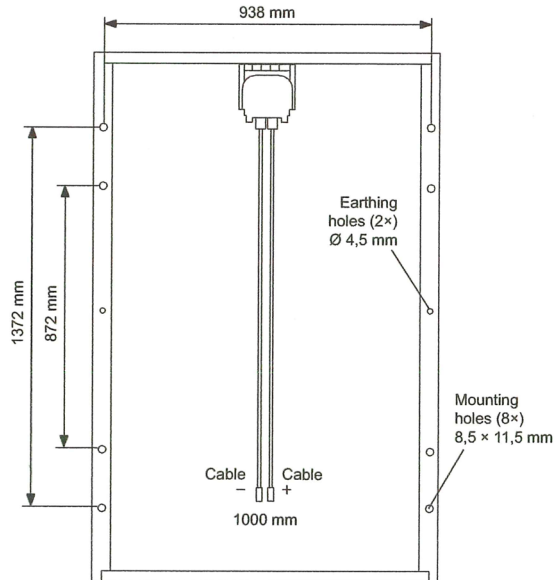
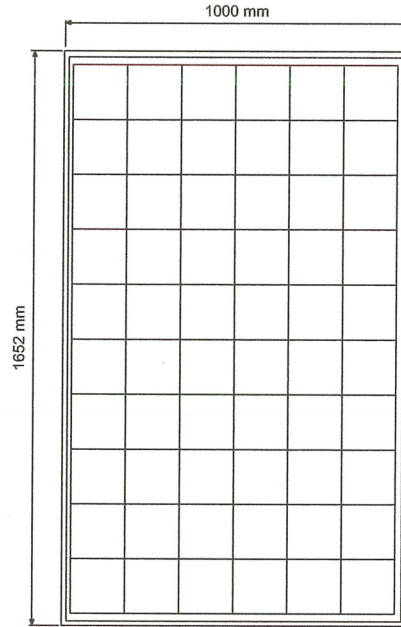
²⁾ Irradiance 1,000 W/m², Air Mass 1.5, cell temperature 25 °C, PV modules show a degradation of the electrical values. This is degressive first of all after commissioning and then switches to linear.

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
Module weight	3.2 mm
External dimensions (L x W x H)	20 kg
Cable length	1652 × 1000 × 45 mm
Connection system	1,000 mm
Junction box	T4 connector system
Packing unit (variable)	IP65, 3 diodes
Schüco clamp holder	Module 1
	Type 58

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.