

# Schüco PS 60 series MPE photovoltaic modules

Technical information for 245 to 255  $W_p$  power classes



## Photovoltaic modules of the highest quality manufactured in the EU

Schüco MPE photovoltaic modules of the PS 60 series featuring polycrystalline solar cells and high module efficiency for maximum solar yields. The optional elevated or lateral installation enables particularly good use of space.

The especially homogeneous solar cells ensure not only high performance but also a first class design of photovoltaic modules.

### Key benefits

- Enhanced output of up to 5  $W_p$  due to a positive output tolerance
- High-quality anti-reflective glass for high solar yields
- High yield security thanks to linear performance warranty of 25 years\*
- Proven resistance to salt spray and ammonia gas allows for use in coastal regions and in agriculture
- Stable modular construction for withstanding snowloads of up to 6,000 Pa
- Flexible modular installation due to extended clamping ranges as far as the module corners
- Possible elevated or lateral installation for optimum use of space

\* In accordance with the warranty conditions of Schüco International KG



Photovoltaic modules of the highest quality manufactured in the EU



Positive output tolerance from 0 to +5  $W_p$



Linear performance warranty on min. 81% of the rated output under standard test conditions in the 25th year\*



Suitable for use in agricultural areas – tested according to IEC 62716



Suitable for use in areas close to the coast – tested according to IEC 61701 Ed. 2



Tested to withstand increased snow loads of up to 6,000 Pa according to IEC 61215



Green technology for the blue planet  
Clean energy from solar power and windows

# SCHÜCO

# Schüco PS 60 series MPE photovoltaic modules

## PV Modules <sup>1)</sup>

Product name	MPE 245 PS 60 EA	MPE 250 PS 60 EA	MPE 255 PS 60 EA
Schüco item number	274 672	274 673	274 674
Cell type	Polycrystalline, 3 busbars		
Number of cells / cell arrangement	60 / 6 × 10		
Cell dimensions	mm 156 × 156		
Module efficiency	% 15.05	15.36	15.67

## Electrical characteristic parameters at standard test conditions <sup>2)</sup>

Rated output ( $P_{mpp}$ ) <sup>3)</sup>	$W_p$	245	250	255
Output tolerance ( $\Delta P_{mpp}$ )	$W_p$		+5/-0	
Nominal voltage ( $U_{mpp}$ ) <sup>3)</sup>	V	30.2	30.4	30.7
Nominal current ( $I_{mpp}$ ) <sup>3)</sup>	A	8.18	8.28	8.38
Open circuit voltage ( $U_{oc}$ ) <sup>3)</sup>	V	37.20	37.48	37.77
Short-circuit current ( $I_{sc}$ ) <sup>3)</sup>	A	8.62	8.71	8.80
Temperature coefficient $\alpha$ ( $P_{mpp}$ )	% / °C		-0.42	
Temperature coefficient $\beta$ ( $I_{sc}$ )	% / °C		+0.06	
Temperature coefficient $\gamma$ ( $U_{oc}$ )	% / °C		-0.32	
Normal Operating Cell Temperature (NOCT) <sup>4)</sup>	°C		46 ± 2	
Max. permissible system voltage	V		1000	
Reverse current resistance	A		20	

## Mechanical characteristic parameters

Aluminium frame design	Anodised, silver (similar to RAL 7035)
Front glass	Single pane safety glass (ESG) 3.2 mm
Module weight	19 kg
External dimensions (L × W × H)	1651 × 986 × 46 mm
Cable length	1000 mm
Connection system	Huber + Suhner (H+S) connector with integrated twist lock
Junction box	IP67, 3 diodes
Packing unit	1 module
Schüco retaining clamp	Type 38

## Accessories

Huber + Suhner connector (Schüco item number)	H+S connector 4/50 (272 171)
	H+S socket 4/50 (272 172)
	H+S connector 6/50 (272 173)
	H+S socket 6/50 (272 174)

## Qualification and warranties <sup>5)</sup>

Product standard	IEC 61215, EN 61730
Linear performance warranty	Min. 81 % $P_{mpp}$ in the 25th year

<sup>1)</sup> Power class availability is verified upon request.

<sup>2)</sup> Irradiance 1,000 W/m<sup>2</sup>, air mass 1.5, cell temperature 25°C, PV modules show a degradation of the electrical values. This is initially degressive upon commissioning, but becomes linear later.

<sup>3)</sup> Measuring tolerances STC: ± 3% ( $P_{mpp}$ ); ± 10% ( $I_{sc}$ ,  $U_{oc}$ ,  $I_{mpp}$ ,  $U_{mpp}$ ).

<sup>4)</sup> Irradiance 800 W/m<sup>2</sup>, ambient temperature 20°C, wind speed 1 m/s.

<sup>5)</sup> In accordance with the warranty conditions of Schüco International KG.

