

# Schüco MPE Modules in the PS 03 Series

Technical Information for Performance Class 235 W<sub>p</sub>



## Domestically Manufactured Polycrystalline Solution

The PS 03 Series modules feature some of the most efficient polycrystalline cells in the Schüco portfolio. Starting with high quality materials, these modules are manufactured to a stringent specification, resulting in a sturdy product with optimized yields. Additionally, the output cables feature Universal PV Wire, making these modules compatible for use with transformerless inverters. Their rugged design and outstanding performance make them the ideal solution for all commercial and residential installations.

PS 03 Series Modules are shipped with reusable, cardboard-free packaging, saving tremendous amounts of waste on the jobsite. Sturdy plastic corners increase packing density, prevent shifting and reduce overall transport costs. Each pallet includes a postage paid box to help facilitate the virtually effortless recycling process.

These domestically produced modules meet the “Buy American” provision of the American Recovery & Reinvestment Act of 2009.

## Key Features

- Domestically manufactured and ARRA Compliant
- Among the highest-rated power outputs in the Schüco portfolio
- Environmentally-friendly packaging
- Output cables feature PV Wire, compatible for use with transformerless inverters
- Perfect for both commercial and residential applications
- Comprehensive guarantee ensures investment security and reliable system operation\*

\* In accordance with the warranty conditions of Schüco USA L.P. and Schüco Canada, Inc.



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## Technical Data

Photovoltaic modules	
Product name	MPE 235 PS 03
Schüco article number	272 350
Cell type	poly
Number of cells / cell arrangement	60 / 6 × 10
Cell dimension	6" (152.4 mm)
Module efficiency	13.3 %

Electrical specifications		
STC rated output ( $P_{mpp}$ )	235	$W_p$
PTC rated output ( $P_{mpp}$ )	208	
Output tolerance STC ( $\Delta P_{mpp}$ )	+5 / -3	%
Warranted power output STC ( $P_{mpp \min}$ )	235	$W_p$
Rated voltage ( $U_{mpp}$ )*	29.4	V
Rated current ( $I_{mpp}$ )*	8.0	A
Open circuit voltage ( $U_{oc}$ )*	37.1	V
Short circuit current ( $I_{sc}$ )*	8.5	A

Electrical specification parameters		
Temperature coefficient $\alpha$ ( $P_{mpp}$ ) <sup>1)</sup>	-0.46	% / °C
Temperature coefficient $\beta$ ( $I_{sc}$ ) <sup>1)</sup>	+0.068	
Temperature coefficient $\chi$ ( $U_{oc}$ ) <sup>1)</sup>	-0.334	
Temperature coefficient $\delta$ ( $I_{mpp}$ ) <sup>1)</sup>	+0.008	
Temperature coefficient $\epsilon$ ( $U_{mpp}$ ) <sup>1)</sup>	-0.466	
Normal Operating Cell Temperature (NOCT) <sup>2)</sup>	45 ± 2	°C
Maximum system voltage USA NEC	600	V
Max. series fuse rating	15	A

Mechanical specification	
Frame technology	Aluminum frame, silver
Compound	Glass / EVA / backsheet
Weight (module only)	43.65 lbs (19.8 kg)
Junction box IP rating	IP 65
Cable length / diameter	Universal PV Wire
	39.4 in ± 2 in 1000 mm ± 50 mm / 4mm <sup>2</sup>
Connector type	Tyco SOLARLOK Connectors

Qualification and warranties	
Product standard	UL 1703
Fire Rating	Class C
Hailstone Impact Resistance	Hail 1 in (25 mm) at 50 mph (22 m/s)
Front load test (Snow) <sup>3)</sup>	+113 psf (5400 Pa)
Rear static load test (Wind) <sup>3)</sup>	± 50 psf (2400 Pa)
Extended product warranty <sup>4)</sup>	5 years
Output warranty of 90% performance $P_{mpp}$ (STC) <sup>4)</sup>	12 years
Output warranty of 80% performance $P_{mpp}$ (STC) <sup>4)</sup>	25 years

<sup>1)</sup> Irradiance 1,000 W/m<sup>2</sup>, air mass index 1.5, cell temperature 25°C (77°F)

<sup>2)</sup> Irradiance 800 W/m<sup>2</sup>, wind speed 1 m/s, ambient temp. 20°C (68°F)

<sup>3)</sup> Refer to module installation for maximum loading configurations

<sup>4)</sup> In accordance with the warranty conditions of Schüco USA L.P.

Miscellaneous	
Packing unit	2 modules
Weight of packing unit	90.4 lbs (41 kg)

