

Schüco MPE Modules in the PS 08 Series

Technical information for performance classes 230 - 245 W_p



Durable and economical polycrystalline modules

Schüco MPE modules in the PS 08 series are known for their rugged design and outstanding performance, making them a popular choice for both commercial and residential installations.

The production process for Schüco polycrystalline cells is more energy efficient than that of some other photovoltaic technologies, helping the earth and the bottom line. Starting with high quality materials, these modules are manufactured to a stringent specification, resulting in a sturdy product with optimized yields.

Schüco modules are designed to withstand a wide variety of weather extremes and manufactured to a strict set of quality standards. Performance data is measured prior to the module leaving the factory and labeled both on the backsheet and the module packaging, for a more convenient installation experience.

Key features

- High-efficiency polycrystalline cells provide advanced power output
- PV wire cables allow the use of transformerless inverters
- Comprehensive warranty ensures investment security and reliable system operation*
- Perfect for both commercial and residential applications
- Manufactured with high quality, robust materials
- Schüco racking systems are specially designed for Schüco modules, resulting in optimized PV package solutions

* In accordance with the warranty conditions of Schüco USA LLLP



Schüco MPE Modules in the PS 08 Series

Technical data

Photovoltaic modules					
Product name	MPE 230 PS 08	MPE 235 PS 08	MPE 240 PS 08	MPE 245 PS 08	
Schüco article number	232 626	323 627	232 628	232 629	
Cell type	Polycrystalline				
Number of cells / cell arrangement	60 / 6 x 10				
Cell dimension	6 (156) in (mm)				
Module efficiency	13.8	14.1	14.4	14.7	%

Electrical specifications					
STC rated output (P_{mpp})	230	235	240	245	W_p
PTC rated output (P_{mpp})	206.5	211.1	215.7	220.3	
Output tolerance STC (ΔP_{mpp})	+5 / -0 %				
Warranted power output STC ($P_{mpp \min}$)	230	235	240	245	W_p
Rated voltage (U_{mpp})	29.04	29.35	29.65	30.05	V
Rated current (I_{mpp})	8.04	8.09	8.11	8.17	A
Open-circuit voltage (U_{oc})	36.89	37.19	37.44	37.70	V
Short circuit current (I_{sc})	8.60	8.67	8.68	8.74	A

Electrical specification parameters		
Temperature coefficient α (P_{mpp}) ¹⁾	-0.44	% / °C
Temperature coefficient β (I_{sc}) ¹⁾	+0.04	
Temperature coefficient χ (U_{oc}) ¹⁾	-0.32	
Temperature coefficient δ (P_{mpp}) ¹⁾	+0.04	
Temperature coefficient ϵ (U_{mpp}) ¹⁾	-0.32	
Normal Operating Cell Temperature (NOCT) ²⁾	46 ± 2 (114.8 ± 3.6)	°C (°F)
Maximum system voltage USA NEC	600	V
Maximum series fuse rating	15	A

Mechanical specifications	
Frame technology	Aluminum frame, silver
Compound	Glass / EVA / backsheet
Weight (module only)	44.1 lb (20 kg)
Junction box IP rating	IP 65
Cable type / diameter	Universal PV Wire / 4 mm ²
Cable length	39.37 ± 1.18 in (1,000 ± 30 mm)
Connector type	MC-T4 compatible

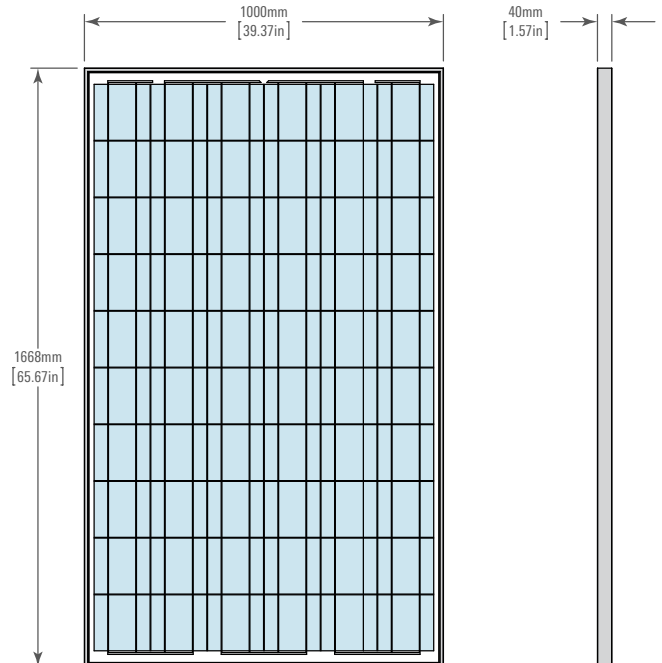
Qualification and warranties	
Product standard	UL 1703
Extended product warranty ³⁾	10 years
Output warranty of 90% performance P_{mpp} (STC) ³⁾	12 years
Output warranty of 80% performance P_{mpp} (STC) ³⁾	25 years

¹⁾ Irradiance 1,000 W/m², air mass index 1.5, cell temperature 25 °C (77 °F)

²⁾ Irradiance 800 W/m², wind speed 1 m/s, ambient temperature 20 °C (68 °F)

³⁾ In accordance with the warranty conditions of Schüco USA LLLP

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



SECTION A-A

