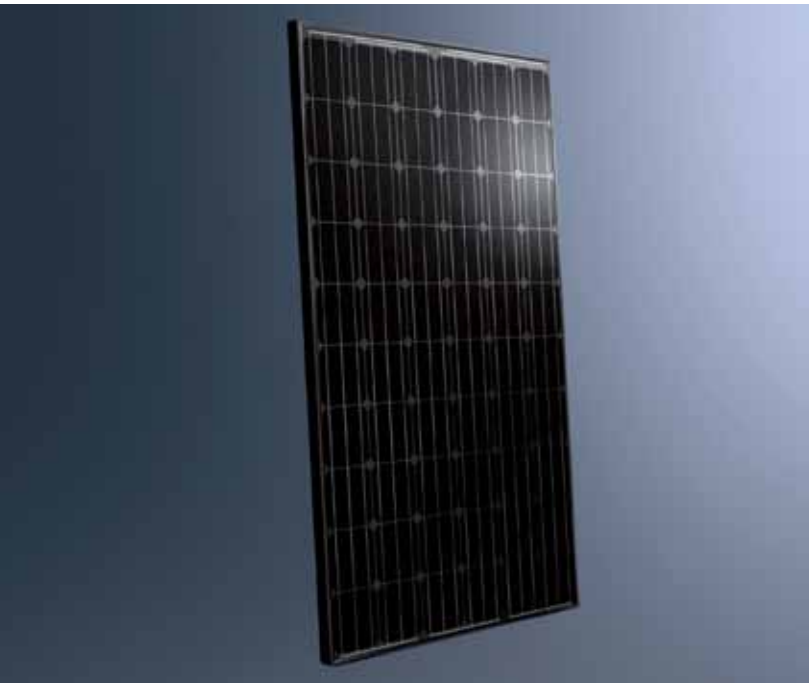


Schüco MPE Modules in the MS 08 Series

Technical information for performance classes 240 - 260 W_p



Highly efficient monocrystalline technology

Schüco MPE MS 08 series offers an all black appearance with superior aesthetics to compliment any roof. Its exceptionally high power density maximizes module performance with outputs up to 260 Watts.

Monocrystalline cell technology delivers unquestionably high performance and reliable longevity. A reduction in the use of fossil fuels and greenhouse gases is a given, but increased revenues can be realized by reductions in electric bills or the sale of electricity. The proven, well established presence of monocrystalline cells in the solar realm ensures investment security and peace of mind.

Each MS 08 module is designed to withstand a wide variety of weather extremes and manufactured to Schüco's stringent 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 process.

Key features

- Higher efficiencies mean more power produced per square foot installed
- PV wire cables allows use of transformerless inverters
- Proven monocrystalline technology translates into longevity and bankability
- Manufactured with high quality, robust materials
- Comprehensive warranty ensures investment security and reliable system operation*
- Schüco's racking systems are specially designed to accommodate Schüco modules, resulting in optimized PV package solutions

* In accordance with the warranty conditions of Schüco USA LLLP



Green Technology for the Blue Planet
Clean Energy from Solar and Windows

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Schüco MPE Modules in the MS 08 Series

Technical data

Photovoltaic modules						
Product name	MPE 240 MS 08	MPE 245 MS 08	MPE 250 MS 08	MPE 255 MS 08	MPE 260 MS 08	
Schüco article number	232 630	232 631	232 632	232 633	232 639	
Cell type	Monocrystalline					
Number of cells / cell arrangement	60 / 6 x 10					
Cell dimension	6 (156)					in (mm)
Module efficiency	14.7	15.0	15.3	15.6	15.9	%

Electrical specifications						
STC rated output (P_{mpp})	240	245	250	255	260	W_p
PTC rated output (P_{mpp})						
Output tolerance STC (ΔP_{mpp})	+5 / -0					%
Warranted power output STC ($P_{mpp \min}$)	240	245	250	255	260	W_p
Rated voltage (V_{mpp})	30.7	30.7	30.8	30.9	30.9	V
Rated current (I_{mpp})	7.96	8.09	8.22	8.34	8.47	A
Open-circuit voltage (V_{oc})	37.7	37.8	37.9	37.9	37.9	V
Short circuit current (I_{sc})	8.54	8.60	8.66	8.72	8.78	A

Electrical specification parameters			
Temperature coefficient α (P_{mpp}) ¹⁾		-0.48	
Temperature coefficient β (I_{sc}) ¹⁾		+0.03	% / °C
Temperature coefficient χ (U_{oc}) ¹⁾		-0.36	
Normal Operating Cell Temperature (NOCT) ²⁾		114.8 ± 3.6 (46 ± 2)	°F (°C)
Maximum system voltage USA NEC		600	V
Maximum series fuse rating		15	A

Mechanical specifications	
Frame technology	Aluminum frame, black
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)

