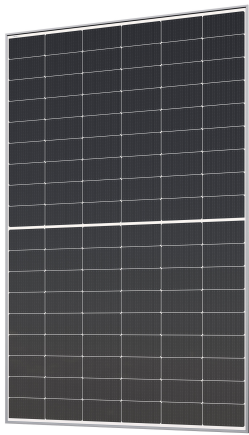


PRODUCT DATASHEET

M 425 N 54 LM -SF-F3

PV PANELS N-TYPE MONOFACIAL SILVER | TopCon monofacial photovoltaic panels with silver frame



Areas of application

- Utility installations
- Commercial and industrial installations
- Residential installations

Product benefits

- TopCon technology provides higher efficiency due to better sunlight conversion than standard panels
- 15-years of product guarantee, 30-years of linear power output guarantee
- Limited PID-effect (potential induced degradation) thanks to strict quality control in production process
- Very low yearly degradation of the cells thanks to the better resistance to high temperatures
- Durable design and highest production standards guarantees operational reliability and quality

Product features

- Original Stäubli MC4 EVO 2 connectors
- Available in a long cable version
- Frame made of anodized aluminum alloy
- Multi-bus bar (MBB) technology
- Maximum static load up to 5400 Pa

Maximum Power Pmax (STC)	425 W
Maximum Power Current Imp (STC)	13.41 A
Short Circuit Current Isc (STC)	14.16 A
Maximum Power Voltage Vmp (STC)	31.70 V
Open Circuit Voltage Voc (STC)	38.26 V
Module efficiency factor (STC)	21.76 %

Maximum Power Pmax (NMOT)	320 W
Maximum Power Current Imp (NMOT)	10.83 A
Short Circuit Current Isc (NMOT)	11.43 A
Maximum Power Voltage Vmp (NMOT)	29.55 V
Open Circuit Voltage Voc (NMOT)	36.53 V

Power tolerance	3 %
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Figure 1 consists of three parts: (a) A grid layout of the slab showing a 10m by 10m area with a 1m by 1m grid. (b) A plan view of the slab with dimensions and reinforcement details. The slab is 10m by 10m. The reinforcement details include: Top reinforcement bars (10mm diameter) at 150mm spacing, Bottom reinforcement bars (10mm diameter) at 150mm spacing, and a central area of 2m by 2m with a different reinforcement pattern. (c) A section view of the slab showing the profile of the reinforcement bars. The slab thickness is 150mm. The reinforcement bars are 10mm diameter. The section view shows the bars bent up at 45 degrees.

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Cable length	1.2 m
Glass with anti-reflection coating	Yes
Colour backsheet	White
Colour cells	Dark blue
Colour frame	Silver
Front Glass	2.0 mm coated semi-tempered glass

TEMPERATURE RATINGS

Nominal operating cell temperature	44 °C
Temperature coefficient I _{sc}	0.046 %/K
Temperature coefficient P _{mp}	-0.300 %/K
Temperature coefficient U _{oc}	-0.250 %/K




OPERATING CONDITIONS

Maximum series fuse rating	25 A
Temperature range in operation	-40...+85 °C
Front Side Maximum Static Loading	5400 Pa
Rear Side Maximum Static Loading	2400 Pa
Reverse current load	25 A

EQUIPMENT / ACCESSORIES

- Product is delivered as a whole, no assembly required from customer
- MC4 EVO 2 connectors are fitted to the panel
- 3 bypass diodes are already installed in the panel

DOWNLOAD DATA

Documents and certificates		Document name
	User instruction / safety instructions	PV MODULE
	Declarations of conformity	CE Certificate PV Panels
	Product family datasheet	M410-430N54LM-SF-F3_EN

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854199943	Shipping box 36	1,739 mm x 1,120 mm x 1,147 mm	728150.00 g	2233.99 dm ³

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products.

When placing an order, for the quantity please enter single or multiples of a shipping unit.

ADDITIONAL CATALOG INFORMATION

Current-voltage curve of the module



Current-voltage curve of the module



DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.