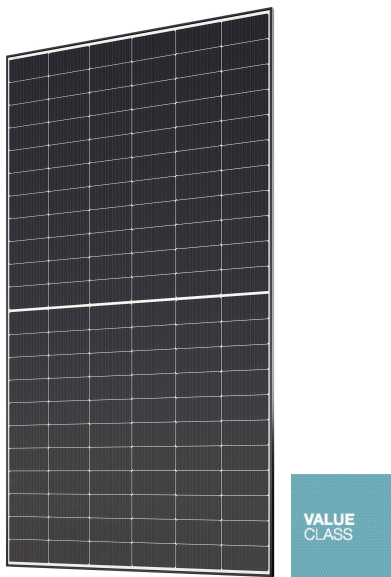


# PRODUCT DATASHEET

## M 660 P 66 UM -BF-F3

PV PANELS P-TYPE MONOFACIAL BLACK | PERC monofacial photovoltaic panels with black frame



### Areas of application

- Commercial and industrial installations
- Residential installations

### Product benefits

- 12-years of product guarantee, 25-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)	660 W
Maximum Power Current Imp (STC)	17.45 A
Short Circuit Current Isc (STC)	18.50 A
Maximum Power Voltage Vmp (STC)	37.83 V
Open Circuit Voltage Voc (STC)	45.64 V
Module efficiency factor (STC)	21.24 %

Maximum Power Pmax (NMOT)	499 W
Maximum Power Current Imp (NMOT)	14.28 A
Short Circuit Current Isc (NMOT)	15.14 A
Maximum Power Voltage Vmp (NMOT)	34.95 V
Open Circuit Voltage Voc (NMOT)	42.45 V

Power tolerance	3 %
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Figure 1 consists of three diagrams labeled (a), (b), and (c). Diagram (a) shows a square grid of 10x10 cells, with a total width of 10.0 and a total height of 10.0. Diagram (b) shows a detailed view of a specimen with a width of 10.0 and a height of 10.0. It includes labels for 'Storage holes' (6 holes), 'Mounting holes' (4 holes), 'Junction hole' (1 hole), and 'Grounding holes' (4 holes). Diagram (c) shows a detailed view of a specimen with a width of 10.0 and a height of 10.0. It includes labels for 'Storage holes' (6 holes), 'Mounting holes' (4 holes), 'Junction hole' (1 hole), and 'Grounding holes' (4 holes).

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Cable length	1.4 m
Glass with anti-reflection coating	Yes
Colour backsheet	White
Colour cells	Dark blue
Colour frame	Black

## TEMPERATURE RATINGS

Nominal operating cell temperature	44 °C
Temperature coefficient I <sub>sc</sub>	0.040 %/K
Temperature coefficient P <sub>mpp</sub>	-0.340 %/K
Temperature coefficient U <sub>oc</sub>	-0.250 %/K




## OPERATING CONDITIONS

Maximum series fuse rating	30 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	30 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	M650-670P66UM-BF-F3_EN

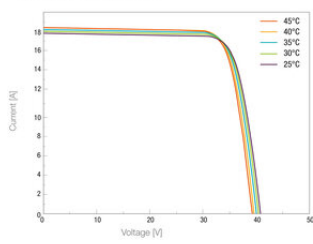
## LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075836006	Shipping box 31	1,350 mm x 1,130 mm x 2,400 mm	1039900.00 g	3661.20 dm <sup>3</sup>

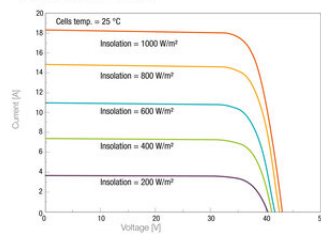
The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

## 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.