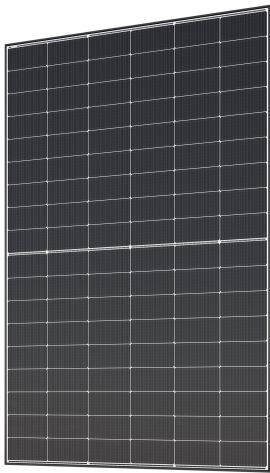


# PRODUCT DATASHEET

## M 455 H 48 RB -BF-F9

PV PANELS HJT-TYPE BIFACIAL BLACK | HJT bifacial photovoltaic panels with black frame



SUPERIOR  
CLASS

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### Areas of application

- Commercial and industrial installations
- Residential installations

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### Product benefits

- HJT solar cells achieve the highest degree of efficiency due to heterojunction technology
- Glass-glass modules offer improved protection against moisture, mechanical loads and fire protection
- HJT technology significantly reduces the power degradation of the cells over the years
- 25-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
- Durable design and highest production standards guarantees operational reliability and quality

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### Product features

- Heterojunction (HJT) solar modules with glass-glass protection
- Bifacial - both sides of the panel are absorbing the light
- Original Stäubli MC4 EVO 2 connectors
- Available in a long cable version
- Frame made of anodized aluminum alloy
- Maximum static load up to 5400 Pa

## TECHNICAL DATA

### ELECTRICAL DATA STC

Maximum Power Pmax (STC)	455 W
Maximum Power Current Imp (STC)	14.77 A
Short Circuit Current Isc (STC)	15.47 A
Maximum Power Voltage Vmp (STC)	30.81 V
Open Circuit Voltage Voc (STC)	36.66 V
Module efficiency factor (STC)	22.77 %

### ELECTRICAL DATA NMOT

Maximum Power Pmax (NMOT)	346 W
Maximum Power Current Imp (NMOT)	11.80 A
Short Circuit Current Isc (NMOT)	12.37 A
Maximum Power Voltage Vmp (NMOT)	29.32 V
Open Circuit Voltage Voc (NMOT)	34.99 V

### ELECTRICAL DATA STC and NMOT

Power tolerance	3 %
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### MECHANICAL DATA

Type of Faciality	Bifacial
Cell material	Mono crystalline
Number of cells	96
Number of bypass diodes	3
With frame	Yes
Type of connection	Staubli MC4 EVO2
Width	1134 mm
Length	1762 mm
Height	30 mm
Product weight	23000.000 g
Cable length	1.2 m
Glass with anti-reflection coating	Yes
Colour cells	Dark blue
Colour frame	Black
Front Glass	Yes
Back Glass	1.6 mm tempered glass / Anti-reflective coating / Double glass

### TEMPERATURE RATINGS

Nominal operating cell temperature	44 °C
Temperature coefficient Isc	0.040 %/K

Temperature coefficient Pmpp	-0.290 %/K
Temperature coefficient Uoc	-0.240 %/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 declaration M455H48RB-BF-F9
	Product Family Datasheet	M440~460H48RB-BF-F9_EN

## LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854346194	Shipping box 36	1,784 mm x 1,140 mm x 1,140 mm	843000.00 g	2318.49 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.

## References / Links

- For Guarantee see [www.ledvance.com/guarantee](http://www.ledvance.com/guarantee)

## DISCLAIMER

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