

JEKO BLACK

JEKO Black is CNBM standard CIGS Thin-Film solar module for rooftop systems, building façade and open spaces designed specifically for this kind of use.

Our latest Black generation is ideally suited for rooftop systems and building façade, due to its darkly finished and reflection-free surface, The modules fit as back rail mounted installations harmoniously into the landscape without disturbing reflections.

Thanks to the elegant product design, the respective type of the roof remains the same, regardless of whether it is a private house, public building, or factory hall.



QUALITY HIGHLIGHTS



CIGS technology for BIPV



Highest yields even in extreme conditions



Unparalleled quality



Superior aesthetics



High loads capabilities for all weathers



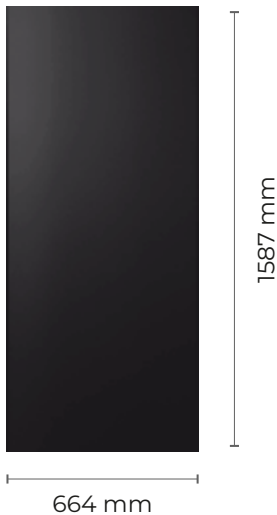
Easy installation



Eco-friendly



Solar Modules

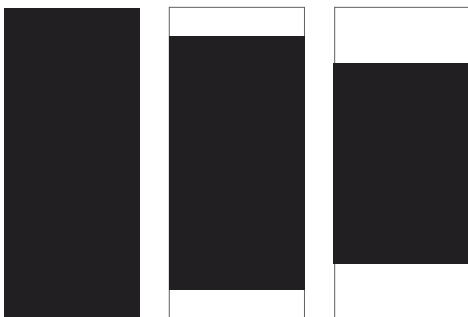


Backside of the module with backrail system



Secure mounting with SMART clamps

DIMENSION COULD BE CUSTOMISED



MECHANICAL SPECIFICATIONS

EXTERNAL DIMENSIONS	1,587 X 664 MM ²
THICKNESS	37 MM
WEIGHT	17 KG
CELL TYPE	CIGS
FRAME	NONE
FRONT COVER	3.2 MM TEMPERED GLASS
DESIGN LOAD (SAFETY FACTOR 1.5)	UPWARD 1600 PA DOWNWARD 3400 PA
JUNCTION BOX PROTECTION CLASS	IP65
DIMENSIONS OF THE JUNCTION BOXES	70 X 64 X 13 MM ³
CABLE LENGTHS (⊖PLUG ⊕SOCKET)	170 300 MM
CABLE CROSS SECTION	2.5 MM ²
CONNECTOR TYPE	MC4 / H4
FIRE RATING	TYPE 1 (UNI 9177)

Design qualification and type approval: IEC 61215:2016
Safety qualification: IEC 61730:2016



ELECTRICAL SPECIFICATIONS

JEKO®	145
NOMINAL POWER P _{NOM} *	145W
MODULE EFFICIENCY	13.7%
APERTURE EFFICIENCY	15.3%
OPEN-CIRCUIT VOLTAGE V _{OC} *	60.4 V
SHORT-CIRCUIT CURRENT I _{SC} *	3.36A
VOLTAGE AT MPP V _{MPP} *	47.4V
CURRENT AT MPP I _{MPP} *	3.06A
MAX. OVER-CURRENT PROTECTION I _R	4.0 A
MAX. SYSTEM VOLTAGE V _{SYS}	1000 V

Insolation intensity 1000 W/m² in the plane of the module, module temperature 25 °C and a spectral distribution of the sunlight according to the atmospheric mass (AM) 1.5.

* Manufacturing tolerance: -5%/+5 %.

DATA MEASURED AT NOMINAL MODULE OPERATING TEMPERATURE (NMOT)** AND AM 1.5:

JEKO®	145
NMOT	4.0 A
NOMINAL POWER P _{NOM} *	109W
OPEN-CIRCUIT VOLTAGE V _{OC} *	57.4V
SHORT-CIRCUIT CURRENT I _{SC} *	2.69A
VOLTAGE AT MPP V _{MPP} *	44.7V

** NMOT: Module operating temperature at 800 W/m² insolation intensity in the plane of the module, air temperature 20 °C, wind speed 1 m/s and operating at mpp.

TEMPERATURE COEFFICIENTS:

JEKO®	VALUE
TEMPERATURE COEFFICIENT P _{NOM}	-0,34 %/ °C
TEMPERATURE COEFFICIENT V _{OC}	-170 MV/°C
TEMPERATURE COEFFICIENT I _{SC}	0 MA/°C

*Installation instruction must be followed. See the installation manual or contact our technical service department for further information on approved installation. *The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to ongoing innovation, R&D enhancement, Olivotto Glass Technology S.p.A. reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.