

Offgridtec ETFE-AL V2 semiflexible Solarpanels

Eigenschaften

- ❖ Hoher Zell-Wirkungsgrad von 22,3 % für optimale Energieausbeute.
- ❖ Zwei überlagerte ETFE-Schichten sorgen für soliden Schutz der innenliegenden Zellen, hohe Lichtausbeute und langfristig hohe Erträge. Somit ist das Modul auch bei Hagel geschützt und beständig gegen Salzwasser.
- ❖ Die neue Struktur der äußersten Schicht verbessert die Rutsch-Hemmung und ermöglicht das sichere Begehen des Moduls.
- ❖ Das integriertes AL-Backsheet schützt weitestgehend vor Zellrissen bei falscher Handhabung und Montage.

Spezifikationen	ETFE-AL V2 60W	ETFE-AL V2 100W	ETFE-AL V2 120W	ETFE-AL V2 160W
Artikelnummer	3-01-018420	3-01-018425	3-01-018430	3-01-018435
EAN	4262440561718	4262440561725	4262440561732	4262440561749
Nennleistung* (WP)	60 W	100 W	120 W	160 W
Modulspannung (V)	18,2 V	23,9 V	18,8 V	18,2 V
Modulstrom (A)	3,30 A	4,19 A	6,39 A	8,80 A
Leerlaufspannung (Voc)	21,30 V	28,00 V	22,00 V	21,30 V
Kurzschlussstrom (Isc)	3,46 A	4,39 A	6,70 A	9,23 A
Max. Systemspannung	200 V DC	200 V DC	200 V DC	200 V DC

*Gemessen unter Standard-Testbedingungen STC (1000 W/m², Spektrum AM 1.5, Zelltemperatur 25 °C)

Abmessungen	ETFE-AL V2 60W	ETFE-AL V2 100W	ETFE-AL V2 120W	ETFE-AL V2 160W
Zellen pro Modul	2×16	3×14	3×11	4×16
Größe der Zellen (mm)	182×45.5	182×60.7	182×91	182×60.67
Modulgröße (mm)	860×395×4	980×580×4	1120×580×4	1110×765×4
Gewicht (kg)	2.16	3.44	4.19	5.06

Thermische Eigenschaften

NOCT	45 +/-2 °C
Spannungstemp.-koeffizient	-0.36 %/°C
Strom-Temperaturkoeffizient	+0.07 %/°C
Leistungstemp.-koeffizient	-0.38 %/°C

Zusätzliche Daten

Leistungstoleranz	+/-3 %
Zellwirkungsgrad	22,30 %
Betriebsbereich	-40 bis +85 °C

Garantie: 10 Jahre Lebensdauer, 1 Jahr Garantie auf die Verarbeitung



Über uns
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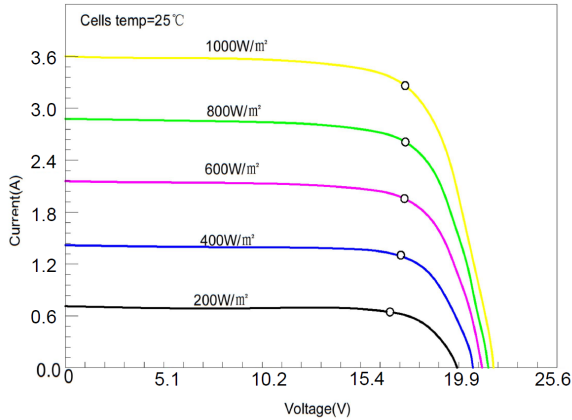
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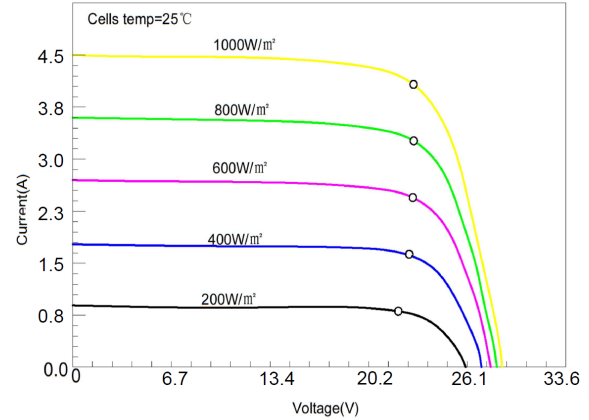
Offgridtec ETFE-AL V2 semiflexible Solarpanels

U-I-Diagramm

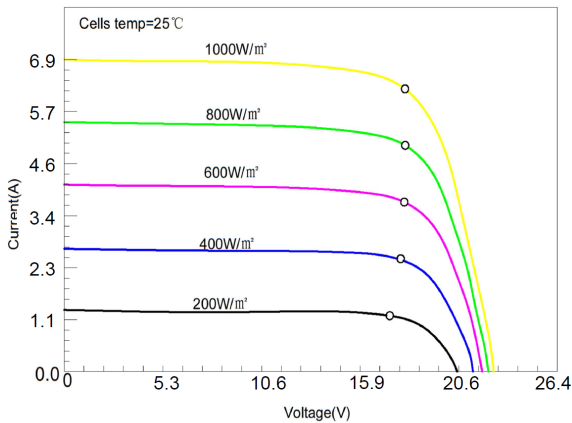
ETFE-AL V2 60W – 3-01-018420



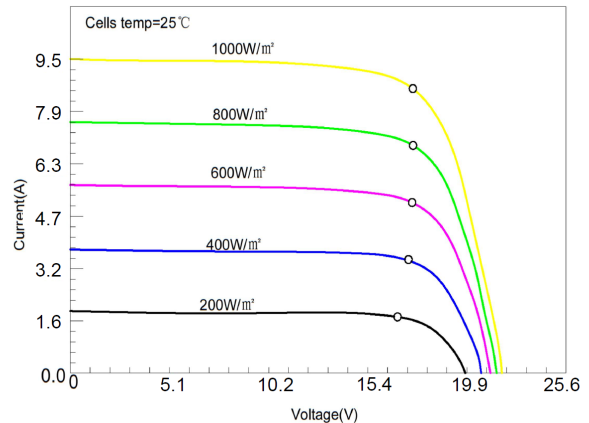
ETFE-AL V2 100W – 3-01-018425



ETFE-AL V2 120W – 3-01-018430



ETFE-AL V2 160W – 3-01-018435



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Offgridtec ETFE-AL V2 semiflexible solar modules

Characteristics

- ❖ High cell efficiency of 22.3 % for optimal energy yield.
- ❖ Two ETFE layers provide solid protection of the internal cells, ensuring high light yield and long-term returns. This protects the module against hail and makes it durable against saltwater.
- ❖ The new structure of the outermost layer improves slip resistance, allowing safe walking on the module.
- ❖ The integrated AL backsheet provides the greatest possible protection against cell cracks in the event of incorrect handling and installation.

Specifications	ETFE-AL V2 60W	ETFE-AL V2 100W	ETFE-AL V2 120W	ETFE-AL V2 160W
Article number	3-01-018420	3-01-018425	3-01-018430	3-01-018435
EAN	4262440561718	4262440561725	4262440561732	4262440561749
Nominal peak power* (WP)	60 W	100 W	120 W	160 W
Nominal voltage (V)	18,2 V	23,9 V	18,8 V	18,2 V
Nominal current (A)	3,30 A	4,19 A	6,39 A	8,80 A
Open circuit voltage (Voc)	21,30 V	28,00 V	22,00 V	21,30 V
Short circuit current (Isc)	3,46 A	4,39 A	6,70 A	9,23 A
Max system voltage	200 V DC	200 V DC	200 V DC	200 V DC

*Measured under Standard Test Conditions STC (1000 W/m²; spectrum AM 1.5; Cell temperature 25 °C)

Measurements	ETFE-AL V2 60W	ETFE-AL V2 100W	ETFE-AL V2 120W	ETFE-AL V2 160W
Cells per module	2×16	3×14	3×11	4×16
Cells size (mm)	182×45.5	182×60.7	182×91	182×60.67
Module size (mm)	860×395×4	980×580×4	1120×580×4	1110×765×4
Weight (kg)	2.16	3.44	4.19	5.06

Thermal attributes	
NOCT	45 +/-2 °C
Voltage temp. coefficient	-0.36 %/°C
Current temp. coefficient	+0.07 %/°C
Power temp. coefficient:	-0.38 %/°C

Additional specification	
Power tolerance	+/-3 %
Cell Conversion efficiency	22,30%
Operating temperature:	-40 to +85 °C

Warranty: 10 years lifetime, and our workmanship warranty is 1 year.



About us
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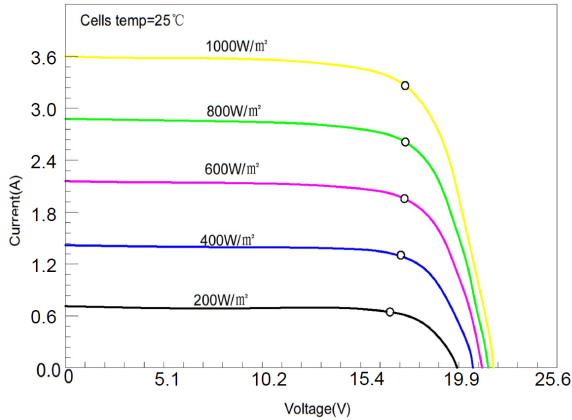
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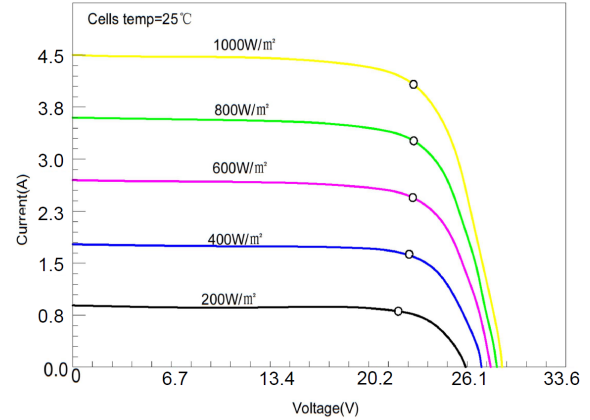
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U-I-Diagram

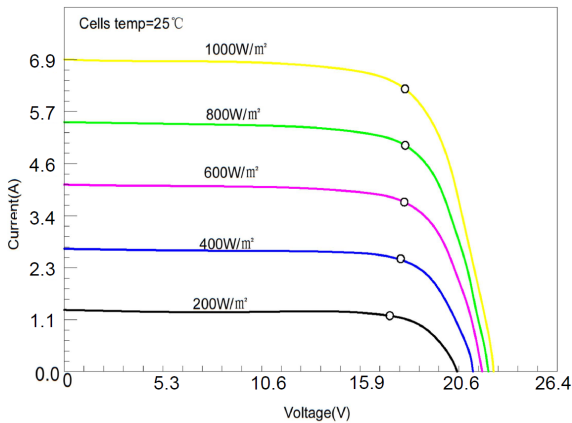
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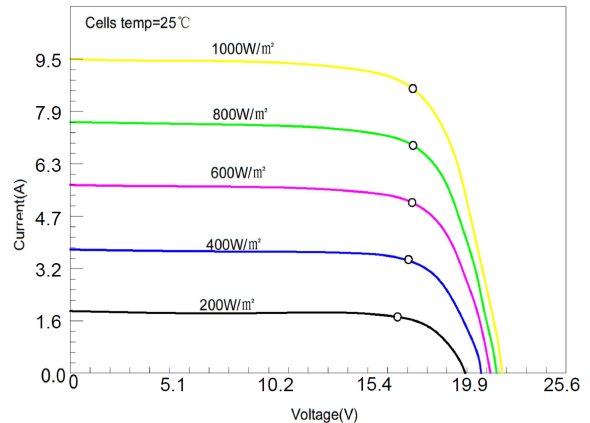
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ETFE-AL V2 160W – 3-01-018435



About us
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Company: Offgridtec GmbH
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Deutschland

Declares that the following products:

PRODUCT TYPE : PHOTOVOLTAIC MODULES
BRAND : Offgridtec GmbH

Manufacturer part number:	Description:
3-01-018420	Offgridtec® ETFE-AL 60W V2 semi-flexibles 18V Solarpanel
3-01-018425	Offgridtec® ETFE-AL 100W V2 semi-flexibles 23V Solarpanel
3-01-018430	Offgridtec® ETFE-AL 120W V2 semi-flexibles 18V Solarpanel
3-01-018435	Offgridtec® ETFE-AL 160W V2 semi-flexibles 18V Solarpanel

Are in conformity with the requirements of the following Directives of the European Union:

Directive 2014/30/EU EMC (Electro Magnetic Compability Directive)
Directive 2014/35/EU LVD (Low Voltage Directive)

EN 61000-6-3:2007+A1:2011
EN IEC 61000-6-1:2019
EN IEC 62368-1:2020+A11:2020

Restriction of the use of certain hazardous substances RoHS (2011/65/EU and 2015/863/EU) with the following harmonized standards:

EN IEC 63000:2018

CE MARK DATE: December 7th, 2022

Signed: Martin Krannich; CEO

Eggenfelden, 19.10.2023
Offgridtec GmbH

