

# UFX-T-M10

TOPCon Technology

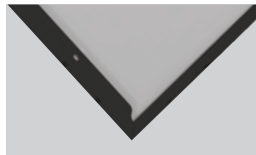
POWER RANGE

**410W~430W**



## JUNCTION BOX

Waterproof protection grade: IP68  
Safety Level: Class II  
Maximum System Voltage: 1500V  
outstanding waterproof level -  
Effectively resist harsh environments



## Frame

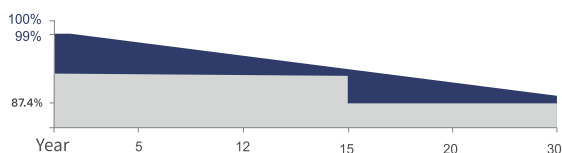
Strong mechanical load  
resistance up to 5400Pa  
Anodic oxidation layer resistant to  
chemical corrosion available

## QUALIFICATIONS AND CERTIFICATES



· IEC61215 / · IEC61730

## WARRANTY



**15**  
YEARS

Guarantee on product material and workmanship

**30**  
YEARS

Linear Power output warranty



## CELL SIZE

182mm x 91 mm



## SMBB Technology

Better light trapping and current collection to improve  
module power output and reliability.



## PID Resistance

Excellent Anti-PID performance guarantee via  
optimized mass-production process and materials  
control.



## Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



## Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow  
load (5400 Pascal).

**UFLEX S.r.l. - Renewable Energy**  
[www.uflexenergia.it](http://www.uflexenergia.it)

Uflex Energy Division is a specialist provider of innovative solutions in renewable energy and energy efficiency. The Energy Division has been in business for more than 25 years and has gained a great experience in supplying components and solutions for both grid disconnected (off-grid) and grid-connected (on-grid) power generation plants.

We operate as a distributor of major brands in the industry and at the same time as a manufacturer of a few components that are the result of the expertise we have gained. We want to be a leading partner for our customers, active in every market sector, designing with them the best solution for their purposes.

In more than twenty-five years of activity it has developed a wide and deep expertise on all possible solutions for energy production from renewable sources and in particular on off-grid systems both photovoltaic and micro wind, both in Italy and worldwide, continuing the international vocation of the Ultraflex Group. These skills have allowed us to provide solutions that are used in every part of the world, on all continents, including the Arctic and Antarctica, from mountain tops (Monte Rosa in the Alps) to African deserts, to the jungles of the Amazon.

## ELECTRICAL DATA(STC)

Model Type	UFX410MM-T-M10	UFX415MM-T-M10	UFX420MM-T-M10	UFX425MM-T-M10	UFX430MM-T-M10
Peak Power(Pmax)	410.00	415.00	420.00	425.00	430.00
Maximum Power Voltage(Vmp)	31.13	31.32	31.51	31.70	31.88
Maximum Power Current(Imp)	13.17	13.25	13.33	13.41	13.49
Open Circuit Voltage(Voc)	37.73±3%	37.92±3%	38.11±3%	38.30±3%	38.49±3%
Short Circuit Current(Isc)	13.91±3%	13.99±3%	14.07±3%	14.15±3%	14.23±3%
Module Efficiency( % )	21.00	21.25	21.51	21.76	22.02

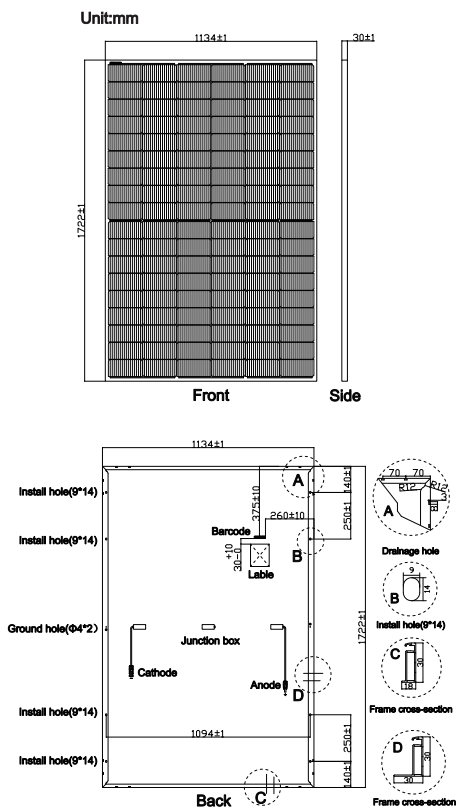
\*STC: irradiance 1000W/m<sup>2</sup>, AM1.5, and cell temperature of 25°C

## ELECTRICAL DATA(NMOT)

Model Type	UFX410MM-T-M10	UFX415MM-T-M10	UFX420MM-T-M10	UFX425MM-T-M10	UFX430MM-T-M10
Peak Power(Pmax)	308.00	312.00	316.00	320.00	323.00
Maximum Power Voltage(Vmp)	29.06	29.21	29.34	29.50	29.63
Maximum Power Current(Imp)	10.61	10.68	10.76	10.83	10.91
Open Circuit Voltage(Voc)	35.84±3%	36.02±3%	36.20±3%	36.38±3%	36.56±3%
Short Circuit Current(Isc)	11.23±3%	11.29±3%	11.36±3%	11.42±3%	11.49±3%

\*NMOT: irradiance 800 W/m<sup>2</sup>, AM 1.5, ambient temperature 20°C, wind speed 1 m/s

## PV DRAWINGS



## TEMPERATURE & MAXIMUM RATING

Maximum System Voltage (V)	1500 V
Maximum Series Fuse Rating (A)	25 A
Power Tolerance	0~+3 W
Pmax Temperature Coefficients (W/°C)	-0.300 %/°C
Voc Temperature Coefficients (V/°C)	-0.250 %/°C
Isc Temperature Coefficients (A/°C)	+0.046 %/°C
NMOT Nominal Module Operating Temperature (°C)	45±2 °C
Operating and Storage Temperature (°C)	-40~+85 °C

## MECHANICAL CHARACTERISTICS

Cell Type	182*91 N Type Mono
No. of Cells	108 (12*9)
Dimensions	1722*1134*30mm
Weight	21.50kg
Front Glass	3.2mm high transmission, low iron, tempered glass
Frame	Anodized Aluminium Alloy
Junction box	IP68 3diodes
Output cables	4mm <sup>2</sup> cable 140cm (MC4 connectors included)
MaxWind Load/Snow Load	2400Pa/5400Pa

## PACKING WAY

20FT container	6 Packages/222pcs
40HQ container	26 Packages/962pcs

## IV CURVE (430W)

