

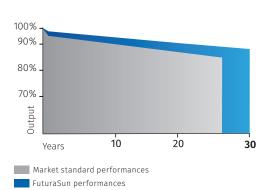




# FU 415/420/425/430/435 MVS Velvet Plus Bifacial Heterojunction half-cut cells

## **PERFORMANCE GUARANTEE**

Max power decrease from 2<sup>nd</sup> year 0.4%/year 99% at the end of first year 91% at the end of 20<sup>th</sup> year 88% at the end of 30<sup>th</sup> year



415 - 435 Wp

POWER RANGE

-0.26 %/°C

TEMPERATURE COEFFICIENT

G10

182 mm

108 BIFACIAL
HJT HALF-CUT
MBB CELLS

## **GENERAL FEATURES & KEY BENEFITS**



- · 30-year performance guarantee & 15-year product warranty
- Half-cut design in combination with multi-busbar reduces operating current and internal resistance



- · Superior module efficiency up to 22.28 % equal to 222.8 Wp/m²
- · Excellent temperature coefficient -0.26 %/°C





- Mechanically strong thanks to the dual glass configuration that moreover reduces the risk of microcracks
- · Better colour uniformity, particularly on the rear

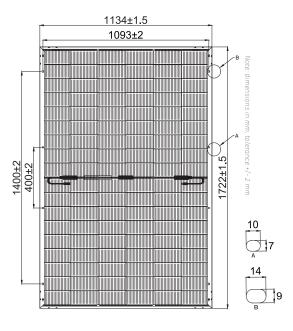


- · Resistant to LID (Light Induced Degradation)
- · Improved low light performance



#### MECHANICAL SPECIFICATIONS

Dimensions	1722 x 1134 x 30 mm
Weight	26 kg
Glass	Front - 2.0 mm Solar glass with ARC Back - 2.0 mm Solar glass white grid
Cells	108 half-cut bifacial HJT cells 182 x 91 mm
Bifaciality	85 ± 5 %
Frame	Black anodized aluminium frame with mounting and drainage holes
Junction box	Certified according to IEC 62790, IP67/ IP68 approved, 3 bypass diodes
Cables	Solar cable, length 1100 mm or customized assembled with 4 mm² compatible connectors
Maximum reverse current (Ir)	25 A
Maximum system voltage	1500 V
Mechanical load (snow)	Design load: 3600 Pa 5400 Pa (including safety factor 1.5)
Mechanical load (wind)	Design load: 1600 Pa 2400 Pa (including safety factor 1.5)
Protection Class	II - accordance to IEC 61730



ELECTRICAL DATA - STC*		FU 415 MVS	FU 420 MVS	FU 425 MVS	FU 430 MVS	FU 435 MVS
Module power (Pmax)	W	415	420	425	430	435
Open circuit voltage (Voc)	V	39.63	39.89	40.17	40.40	40.67
Short circuit current (Isc)	А	12.94	12.99	13.04	13.10	13.15
Maximum power voltage (Vmpp)	V	32.71	33.00	33.23	33.49	33.75
Maximum power current (Impp)	А	12.69	12.73	12.79	12.84	12.89
Module efficiency	%	21.25	21.51	21.76	22.02	22.28

BIFACIAL STANDARD TEST CONDITI	ONS - BSTC**	FU 415 MVS	FU 420 MVS	FU 425 MVS	FU 430 MVS	FU 435 MVS
Module power (Pmax)	W	460	465	470	475	480
Open circuit voltage (Voc)	V	39.63	39.89	40.17	40.40	40.67
Short circuit current (Isc)	А	14.34	14.38	14.42	14.47	14.51
Maximum power voltage (Vmpp)	V	32.71	33.00	33.23	33.49	33.75
Maximum power current (Impp)	А	14.05	14.08	14.14	14.18	14.23

### TEMPERATURE RATINGS

Temperature coefficient Isc	%/°C	0.04
Temperature coefficient Voc	%/°C	-0.24
Temperature coefficient Pmax	%/°C	-0.26
NOCT	°C	44 ± 2
Operating temperature	°C	from -40 to 85

#### PACKAGING INFORMATION

Quantity / Pallet	36 pcs
Container 40' HQ	936 pcs / 26 pallets

"Standard Test Conditions STC: 1000 W/m² - AM 1.5 - 25 °C - tolerance: Pmax (±3%). Voc (±4%). Isc (±5%). "Bifacial Standard Test Conditions (BSTC) Front side irradiation 1000 Wp / sqm Back side reflection irradiation 135 Wp / sqm Ambient temperature 25 °C.

Notice: All data and specifications are preliminary and subject to change without notice.

