

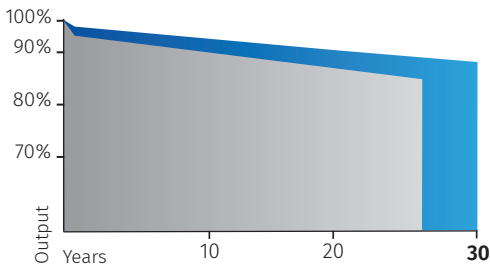
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FU 410/415/420 MT Silk[®] Nova Duetto Bifacial MBB N-type half-cut cells

PERFORMANCE GUARANTEE

Max power decrease from 1st year 0.4%/year
99% at the end of first year
92% at the end of 20th year
87% at the end of 30th year



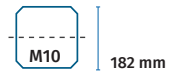
■ Market standard performances
■ FuturaSun performances

415 - 420 Wp

POWER RANGE

-0.29 %/°C

TEMPERATURE COEFFICIENT



108 BIFACIAL HALF-CUT CELLS

GENERAL FEATURES & KEY BENEFITS



- 30-year performance guarantee & 15-year product warranty
- Up to 21,5 % module efficiency equal to 215 Wp/m²
- Two independent section design secures a higher energy yield under shaded conditions
- Up to 85% bifaciality factor
- Half-cut design in combination with multi-busbar reduces operating current and internal resistance



- Resistant to LID (Light Induced Degradation) and LeTID (Light and elevated Temperature Induced Degradation)
- Lower risk of micro-cracks and hot-spot
- 2+2 mm black framed glass-glass structure for optimal mechanical stability.
- Excellent temperature coefficient -0,29 %/°C

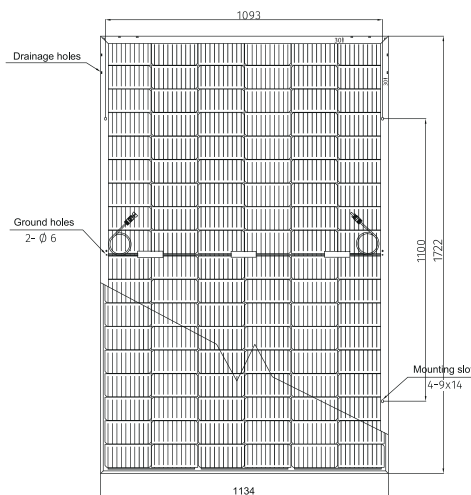


- Improved low light performance
- Increased light absorption



MECHANICAL SPECIFICATIONS

Dimensions	1722 x 1134 x 30 mm
Weight	25,4 kg
Glass	Front - 2.0 mm Solar glass with ARC Back - 2.0 mm Solar glass
Cells	108 monocrystalline half-cut bifacial N-Type cells 182 x 91 mm
Frame	Anodized aluminium frame with mounting and drainage holes
Junction boxes	Certified according to IEC 62790, IP 68 approved, 3 bypass diodes
Cables	Solar cable, length 1100 mm or customized assembled with 4mm ² compatible connectors
Maximum reverse current (Ir)	30 A
Maximum system voltage	1000 V (1500 V on request)
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



Note: dimensions in mm, tolerance +/- 2 mm

ELECTRICAL DATA - STC*

		FU 410 MT	FU 415 MT	FU 420 MT
Module power (Pmax)	W	410	415	420
Open circuit voltage (Voc)	V	37.68	37.87	38.06
Short circuit current (Isc)	A	13.94	14.01	14.09
Maximum power voltage (Vmpp)	V	31.11	31.30	31.49
Maximum power current (Impp)	A	13.18	13.26	13.34
Module efficiency	%	21	21.25	21.51

ELECTRICAL DATA - NMOT**

		FU 410 MT	FU 415 MT	FU 420 MT
Module power (Pmax)	W	308	312	316
Open circuit voltage (Voc)	V	35.82	35.99	36.18
Short circuit current (Isc)	A	11.24	11.31	11.38
Maximum power voltage (Vmpp)	V	29.03	29.19	29.32
Maximum power current (Impp)	A	10.62	10.69	10.77

TEMPERATURE RATINGS

Temperature coefficient Isc	%/°C	0.045
Temperature coefficient Voc	%/°C	-0.25
Temperature coefficient Pmax	%/°C	-0.29
NMOT**	°C	45±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%)

**Nominal Module Operating Temperature NMOT: 800 W/m² - T=45 °C - AM 1.5.

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

