

VENUS SERIES

SF60 420W-440W

High Efficiency Low LID with Half-cut Technology
Big Size : Cell 182 x 91mm Monocrystalline

420W / 425W

430W / 435W / 440W



- Module Efficiency
20.2%
- No. of Cells
120(6 × 20)
- Weight
6.3±0.5Kg
- Dimensions
1927 × 1131 × 3mm

Fast-Installation

Through faster installation, requires no penetration, reduces time on roof and saves installation costs.

Safety

Integration with underlying installation surface, ensuring the waterproof performance and safety performance of the roof.

Ultra-light

Glass free module weighs 6.3kg, 70% lighter than conventional glass modules.

Flexibility

The biggest advantage of flexible photovoltaic modules is that they can be bent and folded, which allows them to adapt to more application scenarios.

Comprehensive and First-rate Certification System

IEC61215: 2021. IEC61730: 2023. UL61730: 2017. IEC62804: 2015
ISO9001 ISO14001 and ISO45001



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Better Choice For Higher Efficiency



Electrical Characteristics

Module	SF-60-18(Lm)				
Maximum Power at STC (Pmax)	420W	425W	430W	435W	440W
Open - Circuit Voltage (Voc)	41.13V	41.28V	41.43V	41.58V	41.73V
Short - Circuit Current (Isc)	13.48A	13.55A	13.62A	13.69A	13.76A
Optimum Operating Voltage (Vmp)	33.88V	34.03V	34.18V	34.33V	34.48V
Optimum Operating Current (Imp)	12.41A	12.51A	12.60A	12.68A	12.77A
Module efficiency	19.3%	19.5%	19.8%	20.0%	20.2%
Power Tolerance	0 ~ + 5W				
Maximum System Voltage	1500V DC (UL / IEC)				
Maximum Series Fuse Rating	25A				
Operating Temperature	-40 ℃ to +85 ℃				

* STC: Irradiance 1000W/m², module temperature 25, AM=1.5
Optional black frame or white frame module according to customer requirements

NMOT

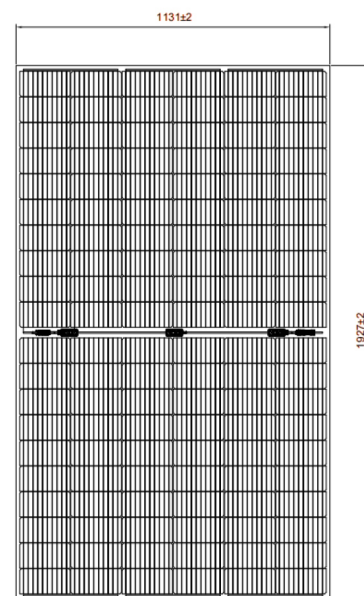
Module	SF-60-18(Lm)				
Maximum Power	312W	316W	320W	324W	327W
Open - Circuit Voltage (Voc)	38.32V	38.46V	38.60V	38.75V	38.89V
Short - Circuit Current (Isc)	10.88A	10.94A	10.99A	11.05A	11.11A
Optimum Operating Voltage (Vmp)	32.11V	32.25V	32.40V	32.54V	32.68V
Optimum Operating Current (Imp)	9.72A	9.80A	9.88A	9.96A	10.01A
NMOT	45±2℃				

* NMOT: Irradiance 800W/m², ambient temperature 20℃, wind speed 1m/s

Mechanical Characteristics

Solar Cells	Monocrystalline 182 × 91mm
No. of Cells	120(6 × 20)
Dimensions	1927 × 1131 × 3 mm
Weight	6.3±0.5kg
Frame	Framless
Junction Box	IP68
Cable	4mm ² (UL / IEC) length: (+)400mm, (-)200mm / customized length
Connectors	MC4-EVO2/MC4 Compatible
Packaging Configuration	58pcs / box, 1276pcs /40'HQ container

Engineering Drawing



Temperature Characteristics

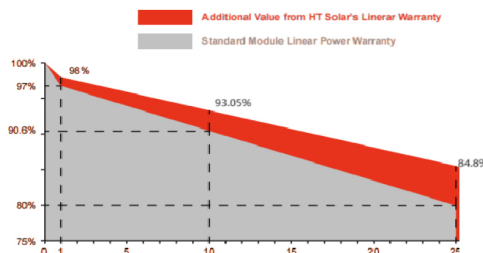
Temperature Coefficient of Pmax	-0.35%/℃
Temperature Coefficient of Voc	-0.26%/℃
Temperature Coefficient of Isc	+0.047%/℃

Warranty

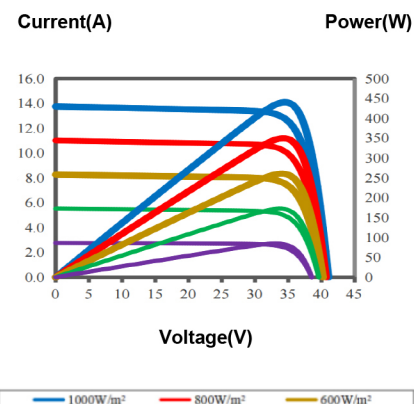
12 - years
product warranty

25 - years
warranty on power output

Specific information is referred to
the product quality guarantee



IV Curves



The module recycling should be carried out by the professional institutions at the end of module life cycle

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