

430 Watt

144 Half Cell Monocrystalline Module

Features



Ultra-light: Glass free module weighs 7.2 kg, 70% lighter than conventional glass modules.

Fast-Installation: Through "Quick-Bonding" installation, It requires no penetration, reduces time on roof by 40% and eliminates the use of mounting hardware.

Aesthetic: Seamless integration with underlying installation surface.

Durable: It is the first glassless module to pass the same durability.

Transportation: Its innovative frame and low weight will very significantly reduce the cost of transportation.

Deployment: Ultra-light weight and customizable size make it the best choice to change the way how solar is deployed in the market and bring added value to special applications.

Durability: The panels are certified to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal), while special materials and stringent quality control ensure panel longevity.

425-430 W

POWER OUTPUT RANGE

0-5 W

POWER TOLERANCE

LINEAR

PERFORMANCE

WARRANTY

10 Year Product Warranty

25 Year Linear Power Warranty



Electrical Characteristics

STC	HSFSP425M-6X24	HSFSP430M-6X24
Maximum Power (P _{max})	425	430
Maximum Power Voltage (V _{mp})	41.8	42.0
Maximum Power Current (I _{mp})	10.17	10.24
Open-circuit Voltage (V _{oc})	49.6	49.8
Short-circuit Current (I _{sc})	10.67	10.74
Module Efficiency (%)	19.2	19.4
Operating Temperature (°C)	-40 °C to 85 °C	
Maximum System Voltage	1000 V DC (IEC)	
Maximum Series Fuse Rating	20 A	
Application Class	Class A	
Power Tolerance	0/+5 W	

STC: Irradiance 1000W/m², Cell temperature 25°C, AM=1.5.

NOCT	HSFSP425M-6X24	HSFSP430M-6X24
Maximum Power (P _{max})	321.4	325.1
Maximum Power Voltage (V _{mp})	38.6	38.8
Maximum Power Current (I _{mp})	8.33	8.38
Open-circuit Voltage (V _{oc})	46.6	46.8
Short-circuit Current (I _{sc})	8.64	8.69

NOCT: Irradiance 800W/m², Ambient temperature 20°C, AM=1.5, Wind speed 1 m/s.

Mechanical Characteristics

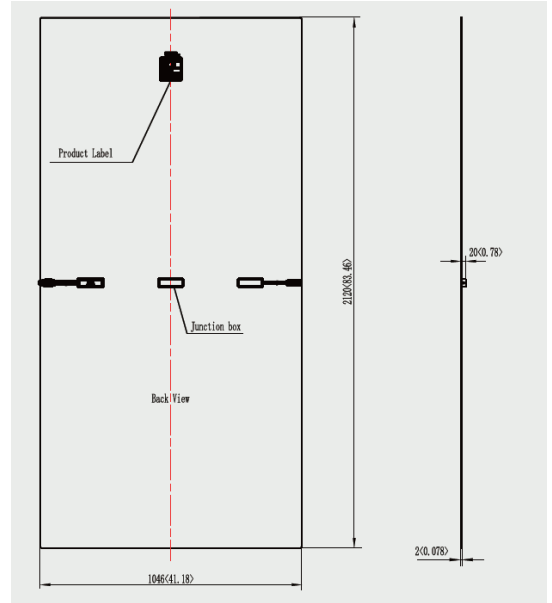
Solar Cell	Monocrystalline silicon (166mm half cell)
No. of Cells	144 (6 × 24)
Module Dimensions	2120×1046×2mm
Weight	7.2 kgs
Backsheet	White
Frame	Flameless
J-box	IP 68 rated
Output Cables	Photovoltaic technology cable 4.0 mm ² , (±)70 mm
Connector	MC4 compatible

Packaging Configuration

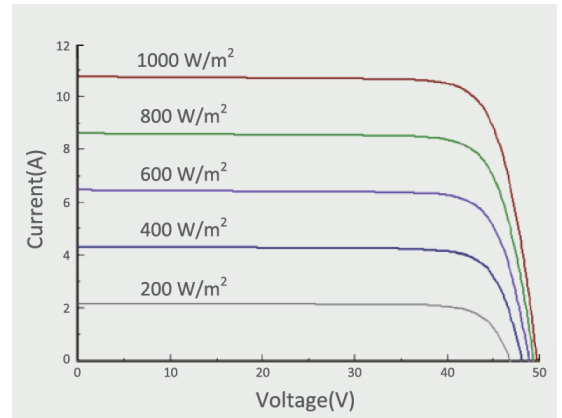
	20' GP	40' HC
Module per pallet	66+50	66
Pieces per container	580	1320

CAUTION: Read installation manual before using the product.
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Dimensions



I-V Curve (430W)



Temperature Characteristics

Nominal Operating Cell Temperature (NOCT)	45 ± 2 °C
Temperature Coefficient of P _{max}	-0.42 %/°C
Temperature Coefficient of V _{oc}	-0.31 %/°C
Temperature Coefficient of I _{sc}	0.050 %/°C

Dealer Information:
HS_IEC_EN_2018A