

## **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











#### MS-MFSP425M-6X24

#### MS-MFSP430M-6X24



# **Electrical Characteristics**

STC	MFSP425M-6X24	MFSP430M-6X24
Maximum Power (P <sub>max</sub> )	425	430
Maximum Power Voltage (V <sub>mp</sub> )	41.8	42.0
Maximum Power Current (I <sub>mp</sub> )	10.17	10.24
Open-circuit Voltage (V <sub>oc</sub> )	49.6	49.8
Short-circuit Current (I <sub>sc</sub> )	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/m<sup>2</sup>, Cell temperature 25°C, AM=1.5.

NOCT	MFSP425M-6X24	MFSP430M-6X24
Maximum Power (P <sub>max</sub> )	321.4	325.1
Maximum Power Voltage (V <sub>mp</sub> )	38.6	38.8
Maximum Power Current (I <sub>mp</sub> )	8.33	8.38
Open-circuit Voltage (V <sub>oc</sub> )	46.6	46.8
Short-circuit Current (I <sub>sc</sub> )	8.64	8.69

NOCT: Irradiance 800W/m<sup>2</sup>, Ambient temperature 20°C, AM=1.5, Wind speed 1 m/s.

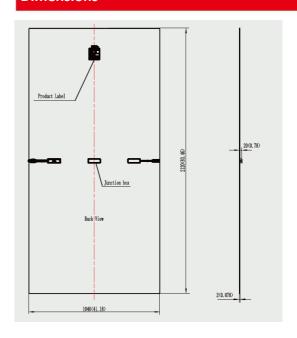
#### **Mechanical Characteristics**

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 <sup>2</sup> , (±)70 mm
Connector	MC4 compatible

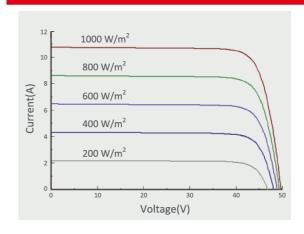
## **Packaging Configuration**

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

### **Dimensions**



### I-V Curve (430W)



Temperature Characteristics		
Nominal Operating Cell Temperature (NOCT)	45±2 ℃	
Temperature Coefficient of Pmax	-0.42 %/°C	
Temperature Coefficient of Voc	-0.31 %/°C	
Temperature Coefficient of Isc	0.050 %/°C	

Dealer Information:

MS\_IEC\_EN \_2018A