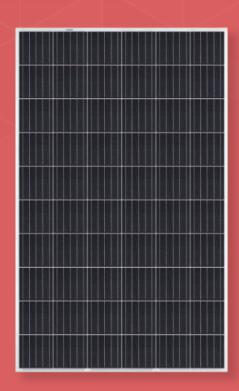


# eArc **SMF310M-6X10DW**

# **310 Watt**

# 60 Cell Monocrystalline Module





Ultra-light: Glass free module weighs 4.8 kg, 70% lighter than conventional glass modules.



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



Aesthetic: Seamless integration with underlying installation surface.



Durable: eArc is the first glassless module to pass the same durability tests as conventional glass modules, including IEC 61215:2016, IEC61730:2016 and UL1703 (USA). eArc has also passed PID, salt mist and ammonia corrosion tests.

POWER OUTPUT RANGE 305~310 W

**POWER TOLERANCE** 

0-5 W

#### LINEAR PERFORMANCE WARRANTY

CAUTION:Read installation manual before using the product.

**10 Year Product Warranty** 

25 Year Linear Power Warranty





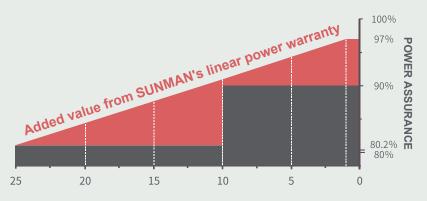


www.sunman-energy.com



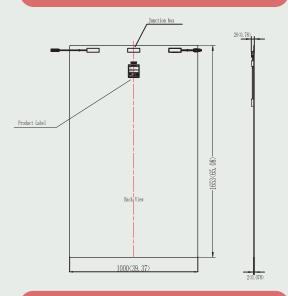


©2020 Sunman (zhenjiang) Co.,Ltd.All rights reserved. Specifications included in this datasheet are subject to change without notice.

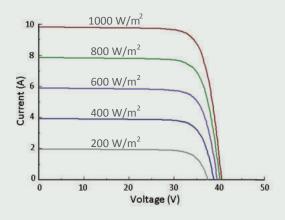




## **DIMENSIONS**

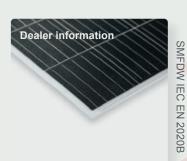


# I-V CURVE (310)



# TEMPERATURE CHARACTERISTICS

Nominal Module Operating Temperature(NOMT)	<b>41±2</b> °C
Temperature Coefficient of P <sub>max</sub>	-0.38 %/℃
Temperature Coefficient of V <sub>oc</sub>	- <b>0.28</b> %/°C
Temperature Coefficient of I <sub>sc</sub>	0.020 %/°C



### **ELECTRICAL CHARACTERISTICS**

STC	SMF305M-6X10DW	SMF310M-6X10DW
Maximum Power (P <sub>max</sub> )	305	310
Maximum Power Voltage (V <sub>mp</sub> )	33.0	33.3
Maximum Power Current (I <sub>mp</sub> )	9.25	9.31
Open-circuit Voltage (V <sub>oc</sub> )	40.3	40.5
Short-circuit Current (I <sub>sc</sub> )	9.74	9.81
Module Efficiency (%)	18.5	18.8
Operating Temperature	-40 °C to	<b>o 85</b> °C
Maximum System Voltage	1000 V DC (IEC)	
Maximum Series Fuse Rating	20 A	
Application Class	Clas	s A
Power Tolerance	0/+5	s w
	.5. Tolerances of I	

	NMOT	SMF305M-6X10DW	SMF310M-6X10DW
	Maximum Power (P <sub>max</sub> )	229	233
	Maximum Power Voltage (V <sub>mp</sub> )	30.5	30.7
	Maximum Power Current (I <sub>mp</sub> )	7.51	7.59
	Open-circuit Voltage (V <sub>oc</sub> )	37.4	37.6
	Short-circuit Current (I <sub>sc</sub> )	7.96	8.04
NMOT: Irradiance 800M/m 2. Ambient temperature 20 C. AM=1.5. Wind speed 1 m/s			

### **MECHANICAL CHARACTERISTICS**

Solar Cell	Cell Monocrystalline silicon (158.75mm)	
No. of Cells	60 (6×10)	
Module Dimensions	1653×1000×2 mm	
Weight	4.8kg	
Backsheet	White	
Frame	Frameless	
J-box	IP 68 rated	
Output Cables	Photovoltaic technology cable 4.0 mm 2 , (+)150 / (-)450 mm	
Connector	MC4 compatible	

### **PACKAGING CONFIGURATION**

	20' GP	40' HC
Module per pallet	30+66	66
Pieces per container	576	1716