

eArche

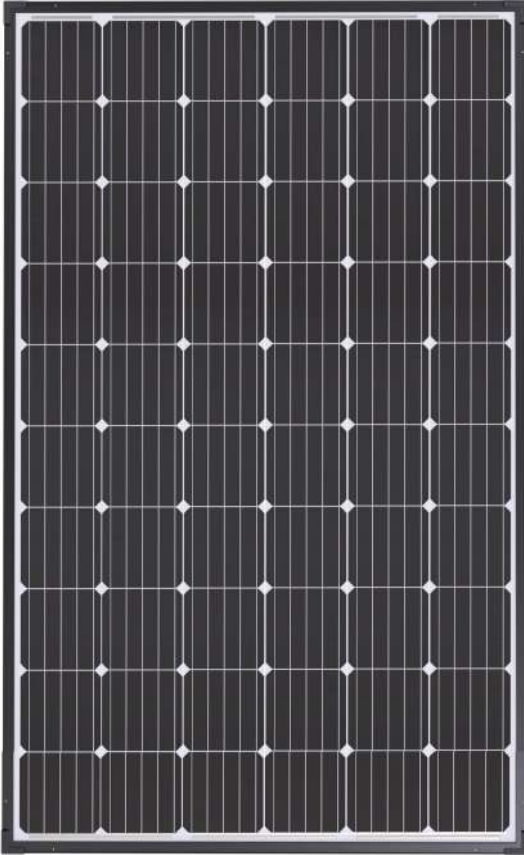
SUNMAN

Iris Hellas
Technology Innovations
www.irishellas.com

290 Watt

60 Cell Monocrystalline Module

Features



Ultra-light: Through replacement of the glass and optimization of the frame eArche weighs as 70% less than conventional PV panels.

Flexible: eArche combines a unique, patented material with other industry-leading technologies to produce superior flexible crystalline-silicon panel which can be installed on curved surface.

Aesthetics: Aesthetically pleasing design with patented materials and sophisticated manufacturing process results in a high-efficiency, attractive panel, with no light pollution, PID-free operation and high levels of safety.

Easy Installation: eArche can reduce installation cost by up to 50% through the use of re-engineered components, ease of handling and faster installation.

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

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

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

285-290 W

POWER OUTPUT RANGE

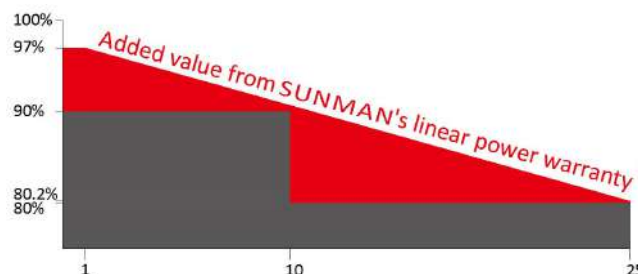
0-5 W

POWER TOLERANCE

LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty

25 Year Linear Power Warranty



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SMD290M-6X10DW



SMD285M-6X10DW

Electrical Characteristics

STC	SMD290M-6X10DW	SMD285M-6X10DW
Maximum Power (P_{max})	290	285
Maximum Power Voltage (V_{mp})	32.6	32.4
Maximum Power Current (I_{mp})	8.90	8.80
Open-circuit Voltage (V_{oc})	39.9	39.8
Short-circuit Current (I_{sc})	9.43	9.34
Module Efficiency (%)	17.1	16.8
Operating Temperature ($^{\circ}C$)	-40 $^{\circ}C$ to 85 $^{\circ}C$	
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 $^{\circ}C$, AM=1.5.

NOCT	SMD290M-6X10DW	SMD285M-6X10DW
Maximum Power (P_{max})	214	210
Maximum Power Voltage (V_{mp})	29.9	29.7
Maximum Power Current (I_{mp})	7.16	7.08
Open-circuit Voltage (V_{oc})	36.9	36.7
Short-circuit Current (I_{sc})	7.61	7.53

NOCT: Irradiance 800W/m², Ambient temperature 20 $^{\circ}C$, Wind speed 1 m/s.

Mechanical Characteristics

Solar Cell	Monocrystalline silicon (6 inches)
No. of Cells	60 (6×10)
Module Dimensions	1662×1019×5.6 mm (65.4×40.1×0.2 inch)
Weight	5.5 kgs (12.1 lbs)
Backsheet	White
Frame	Black Anodized Aluminium Alloy
J-box	IP 68 rated
Output Cables	Photovoltaic technology cable 4.0 mm ² , (+)150 / (-)450 mm
Connector	MC4 compatible

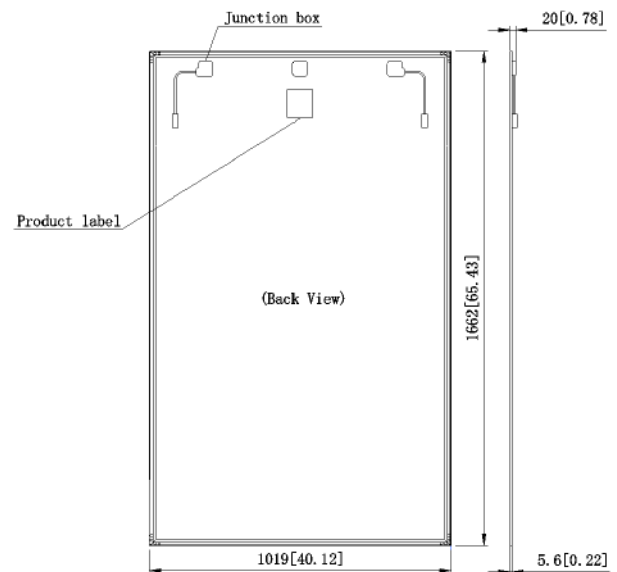
Packaging Configuration

	20' GP	40' HC
Module per pallet	66	66
Pieces per container	396	1848

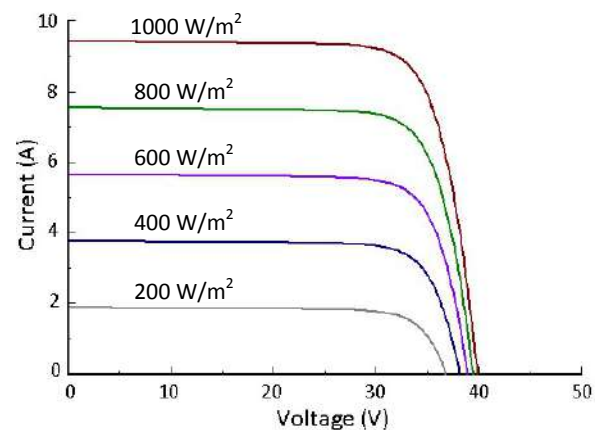
CAUTION: Read installation manual before using the product.

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Dimensions



I-V Curve (290)



Temperature Characteristics

Nominal Operating Cell Temperature (NOCT)	45 ± 2 $^{\circ}C$
Temperature Coefficient of Pmax	-0.39 %/ $^{\circ}C$
Temperature Coefficient of Voc	-0.30 %/ $^{\circ}C$
Temperature Coefficient of Isc	0.059 %/ $^{\circ}C$

Dealer Information

Iris Hellas
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SMDDW_IEC_EN_2019A