

Barrel®

ULTRA LIGHT &
FLEXIBLE SOLAR PANEL

310 Watt 60 Cell Monocrystalline Module

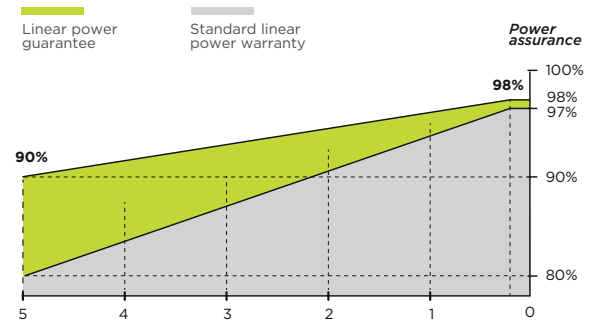
POWER OUTPUT RANGE 305-310 W

POWER TOLERANCE 0-5 W

Warranties:

5
YEARS
LINEAR
POWER

Linear performance warranty



Ultra-light

Glass free module weighs 5.0 kg, 70% lighter than conventional glass modules.



Aesthetic

Seamless integration with underlying installation surface.



Fast-Installation

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



Durable

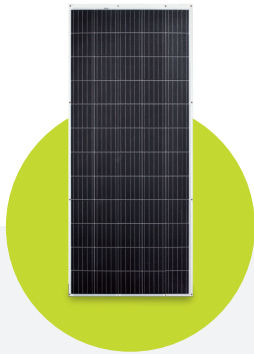
eArc is the first glassless module to pass the same durability tests as conventional glass modules, including IEC 61215:2016, IEC61730:2016 and UL 1703 (USA). eArc has also passed PIO, salt mist and ammonia corrosion tests.



CAUTION: read installation manual before using the product.

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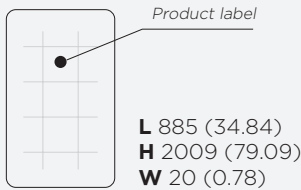
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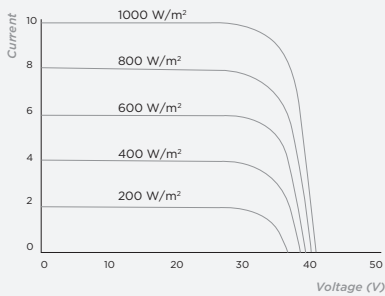
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**310 Watt
60 Cell Monocrystalline Module**

Dimensions



I-V Curve (310)



Temperature characteristics

Nominal Module Operating Temperature (NOMT)	41±2°C
Temperature Coefficient of P_{max}	-0.38 %/°C
Temperature Coefficient of V_{oc}	-0.28 %/°C
Temperature Coefficient of I_{sc}	0.020 %/°C

Electrical characteristics

STC	305	310
Maximum Power (P_{max})	305	310
Maximum Power Voltage (V_{mp})	33.0	33.3
Maximum Power Current (I_{mp})	9.25	9.31
Open-circuit Voltage (V_{oc})	40.3	40.5
Short-circuit Current (I_{sc})	9.74	9.81
Module Efficiency (%)	17.2	17.4
Operating Temperature	-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 1000 W/m², Cell temperature 25 °C, AM=1.5

Tolerances of P_{max} , V_{oc} and I_{sc} are with in ±5%

NMOT	305	310
Maximum Power (P_{max})	229	233
Maximum Power Voltage (V_{mp})	30.5	30.7
Maximum Power Current (I_{mp})	7.51	7.59
Open-circuit Voltage (V_{oc})	37.4	37.6
Short-circuit Current (I_{sc})	7.96	8.04

NMOT: Irradiance 1000 W/m², Ambient temperature 20 °C, AM=1.5, Wind speed 1 m/s.

Mechanical characteristics

Solar Cell	Monocrystalline silicon (158.75mm)
N° Cells	60 (5x12)
Module Dimensions	2009x885x2 mm
Weight	5.0 kg
Backsheet	White
Frame	Frameless
J-box	IP 68 rated
Output Cables	Photovoltaic technology cable 4.0 mm 2, (+)450 / (-)450 mm
Connector	MC4 compatible

Packaging configuration

	20'GP	40' HC
Module per pallet	66+10	66+11
Pieces per container	710	1617