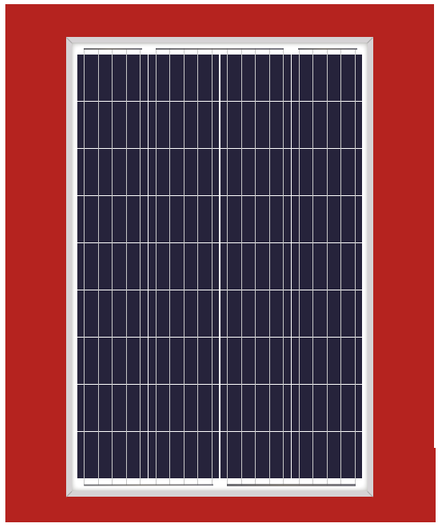
Off-grid Solar Modules 100/ 120 WP



>17.8%
CELL EFFICIENCY

10 YEAR
PRODUCT WARRANTY

25 YEAR
LINEAR WARRANTY

Designed in Europe

The use of European production knowledge and carefully selected components are the foundation for our top quality solar modules.

Solinc ensures up to date technology, durability, and the reliable high performance that our panels have become well known for.

High Power Density

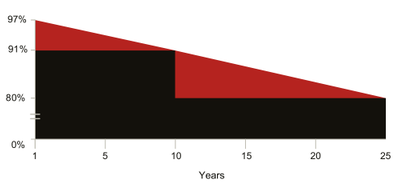
High conversion efficiency and more power output per square meter.

Durability

Durable PV modules, independently tested for harsh environmental conditions such as exposure to salt mist, ammonia and PID risk factors.

Advanced Glass

Our high-transmission glass features a unique anti-re flective coating that directs more light on the solar cells,resulting in a higher energy yield.



(0.7% annual degradation, 80% after 25 years)

QUALIFICATIONS & CERTIFICATES

SYSTEM CERTIFICATIONS: ISO 9001:2008, ISO 14001:2004

ELECTRICAL PROPERTIES AT STC*

Model	Solinc EA100	Solinc EA120
Maximum power P_{max}	100 Wp	120 Wp
Current maximum power point I_{mpp}	5.43A DC	6.42A DC
Voltage maximum power point V_{mpp}	18.4V DC	18.7V DC
Open circuit voltage V_{oc} (STC)	22.4V DC	22.9V DC
Short circuit current I_{sc}	5.87A DC	6.80A DC
Module Efficiency (ηm)	15.04%	16.11%
Maximum system voltage (V)	1000V DC	
Maximum series fuse rating(A)	10A	15A
Power tolerance	±5%	
Diode	2x10A	3x10A

MECHANICAL PROPERTIES

Model	Solinc EA100	Solinc EA120
No. of cells	36 (4x9)	
Cell type	Polycrystalline Cell	
Cell size	156.75x104.25mm	156.75x117mm
Module dimensions	1000x665x30mm	1120x665x30mm
Weight	7.5kg	8.4kg
Front cover (material / thickness)	low-iron tempered glass / 3.2mm	
Frame (material)	Anodized aluminum alloy	
Junction box (protection degree)	IP65	
Cable (length / cross-sectional area)	500mm / 2.5mm²	1100mm / 4.0mm²
Plug connector (type / protection degree)	None	MC4/IP65

*STC (Standard Test Condition):
- Irradiance 1000W/m²
- Module temperature 25ºC
- Spectrum AM 1.5

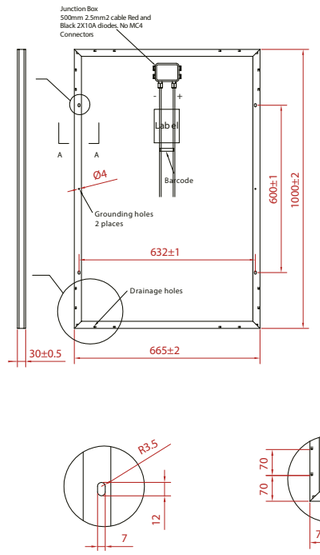
THERMAL CHARACTERISTICS

Nominal operating cell temperature	NOCT	°C	45±2
Temperature coeficient of P_{max}	γ	%/°C	-0.40
Temperature coeficient of V_c	β_{Voc}	%/°C	-0.32
Temperature coeficient of I_c	α_{Isc}	%/°C	0.05

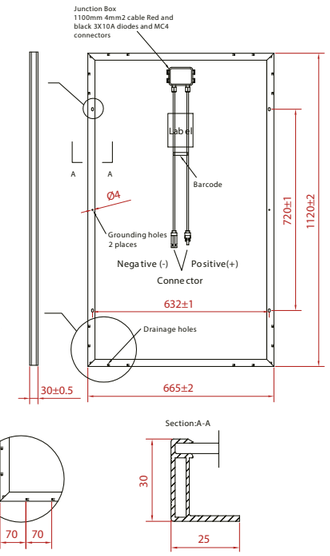
OPERATING CONDITIONS

Operating temperature range	-40°C to 85°C
Max. static load, front (e.g., snow)	5400Pa
Max. static load, back (e.g., wind)	2400Pa
Max. hailstone impact (diameter / velocity)	25mm / 23m/s

100W



120W



Warning : Read the Installation and User Manual in its entirety before handling, installing, and operating Solinc Solar modules.

• Due to continuous innovation, research and product improvement, the specifications in this product data sheet are subject to change without prior notice. The specifications may deviate slightly.
• This data does not refer to a single module, however it is composite. This only serves as a technical guide for the stated module models.

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