

Solaria PowerXT® | AC Module



The Solaria PowerXT AC Module combines the latest cutting-edge microinverter technology from Enphase with the premium high-efficiency and superior aesthetics of the Solaria PowerXT Module. Utilizing the latest Enphase IQ7+ platform, the PowerXT AC Module puts aesthetics and performance together into an elegant user-friendly package that reduces installation time by combining the inverter, module and monitoring.

Achieving up to 20% efficiency, Solaria PowerXT solar modules are one of the highest power AC modules in the residential solar market. Compared to conventional modules, Solaria PowerXT modules have fewer gaps between the solar cells; this leads to higher power and superior aesthetics. Solaria PowerXT residential modules are manufactured with black backsheet and frames, giving them a striking appearance.

Higher Efficiency, Higher Power

Solaria PowerXT modules achieve up to 20% efficiency; conventional modules achieve 15% – 17% efficiency. Combined with Enphase IQ7+ microinverter, the Solaria PowerXT AC Modules-is one of the highest power and most efficient AC modules available.

Easy to Install

The integrated Enphase IQ7+ microinverter reduces installtions costs by taking the complexity and guesswork out of designing systems and combining components in the field. It is also compliant with NEC 2014 & 2017 rapid shutdown requirements.

Smart Grid Ready

Meets CA Rule 21 and complies with advanced grid support, voltage and frequency ridethrough requirements. Remotely updates to respond to changing grid requirements and is configurable for varying grid profiles.

Superior Aesthetics

Compared to conventional modules, the Solaria PowerXT AC Module has a more uniform appearance and improved aesthetics.

Durability and Reliability

Industry leading 25 year warranty with a million hours of microinverter testing.

About Solaria

Established in 2000, The Solaria Corporation has created one of the industry's most respected IP portfolios, with over 100 patents encompassing materials, processes, applications, products, manufacturing automation and equipment. Headquartered in Fremont, California, Solaria has developed a technology platform that unlocks the potential of solar energy allowing it to be ubiquitous and universally accessed.











Solaria PowerXT®-355R-AC

DC Input Performance at STC (1000W/m², 25° C, AM 1.5)				
Solaria PowerXT-		350R-AC	355R-AC	360R-AC
Max Power (Pmax)	[W]	350	355	360
Efficiency	[%]	19.4	19.6	19.9
Open Circuit Voltage (Voc)	[V]	47.1	47.4	47.7
Short Circuit Current (Isc)	[A]	9.49	9.53	9.56
Max Power Voltage (Vmp)	[V]	38.8	39.1	39.5
Max Power Current (Imp)	[A]	9.02	9.09	9.13

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AC Output Data: Enphase IQ7+ Microinverter				
Peak Output Power	[VA]	300		
Max Continuous Power	[VA]	290		
Nominal Voltage	[V]	240		
Max Continuous Current	[A]	1.21		
Nominal Frequency	[Hz]	60		
Extended Frequency Range	[Hz]	47-68		
Efficiency	[%]	97.0		
Power Factor / Adjustable	[#]	0.7 leading0.7 lagging		
Max Branch Circuit	[A]	20		
Max Modules/Circuit	[#]	13		
Operating Temperature	[C]	-40 to +65		

^{*} Refer to Enphase IQ7+ Datasheet for complete specification

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Rapid Shutdown

Communication Power line

Enlighten Manager and MyEnlighten options Monitoring Compatible with Enphase IQ Envoy

Approved by UL for AC and DC load break **Disconnecting Means**

as required by NEC Article 690 Compliant per NEC-2014 & 2017

Mechanical Characteristics

Cell Type	Monocrystalline Silicon
Dimensions (L x W x H)	1621mm x 1116mm x 40mm
Weight	22 kg / 48 lbs
Glass Type / Thickness	AR Coated, Tempered / 3.2mm
Frame Type	Anodized Aluminum
Cable Type / Length	12 AWG PV Wire (UL) / 1000mm
Junction Box	IP67 / 4 diodes
Front Load (UL 1703)	5400 Pa / 113 psf*
Rear Load (UL 1703)	3600 Pa / 75 psf*

^{*} Refer to Solaria Installation Manual for details

Certifications / Warranty

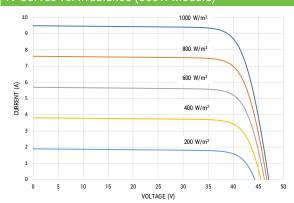
Certifications	UL 1703/UL1741/CEC
NEMA	3R
Fire Type	Type 1
Power & Product Warranty	25 years*

^{*} Warranty details at www.solaria.com

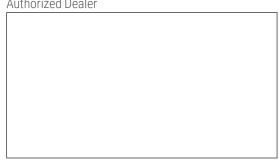
Packaging

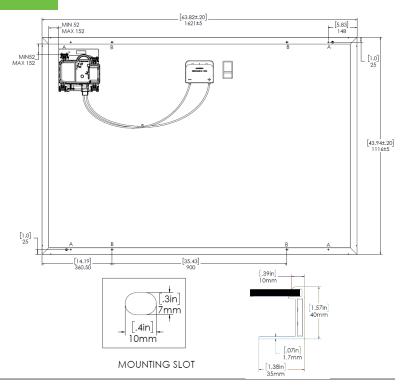
Stacking Method	Horizontal / Palletized
Pcs / Pallet	25
Pallet Dims	1668 x 1150 x 1230 mm
Pallet Weight	615 kg / 1360 lbs
Pallets / 40-ft Container	28
Pcs / 40-ft Container	700

IV Curves vs. Irradiance (350W Module)



Authorized Dealer







LIMITED PRODUCT WARRANTY

SOLARIA PowerXTTM MODULES

This Limited Product Warranty covers the Solaria products ("Products") purchased by you ("Customer"). Applicable Products are defined as Solaria solar modules developed for the residential market (PowerXT-xxxR) or commercial market (PowerXT-xxxC) where "xxx" is the power rating of the module.

1. LIMITED WARRANTY:

- (a) Solaria warrants that for a period of 25 years from the date of shipment, the Products will be free from defects in material and workmanship, under normal conditions and when used in accordance with its documentation. If during the warranty period, a defect is confirmed in accordance with Section 2 below, Solaria will, at its sole obligation and Customer's exclusive remedy, repair or replace the warranted Product or parts thereof. Defective Products or parts may be replaced with either new or factory refurbished or remanufactured Products or parts.
- (b) Solaria further warrants that for a period of 25 years from the date of shipment, the loss of power output relating to the initial guaranteed power which is defined as Peak Power Watts Pmax (Wp) plus Peak Power Watts Pmax (Wp) multiplied by the lower limit of the Power Output Tolerance Pmax (%)—as specified in the relevant Product Data Sheet and measured at Standard Test Conditions (STC) for the Product(s) shall not exceed:
 - For Polycrystalline Products: 2.5% in the first year, thereafter 0.7% per year, ending with 80.7% in the 25th year after the date of shipment,
 - For Monocrystalline Products: 3.0% in the first year, thereafter 0.68% per year, ending with 80.68% in the 25th year after the date of shipment.

If during the warranty period, the power output of the Product falls below the levels specified above, as a result of a Product defect that is confirmed in accordance with Section 2 below, Solaria will, as its sole obligation, elect to either:

1. repair or replace the warranted Product or parts thereof, or

2. issue a credit to Customer equal to the depreciated value of the Product (using 25-year life) attributable to the deficient power output.

In the event of a Solaria product used in a large field – to be defined as larger than 500 panels unless otherwise agreed – the average power of an array of panels will be used to establish whether an individual panel must be replaced or credit given. For example, if the average power value of an array is 91% after 9 years of operation but an individual panel is at 87%, the array power would be deemed acceptable and the individual panel in question would be replaced or credit given solely at Solaria's discretion.

2. WARRANTY CLAIM PROCESS:

To make a claim under this Limited Product Warranty, Customer should contact Solaria as follows:

Attn: Warranty Claims Department

Email: warrantyclaims@solaria.com

Solaria reserves the right to validate warranty claims and determine power losses on Customer's premises if necessary and Customer agrees to provide access to relevant records and Products. Solaria reserves the right to have the cause of module failures or power loss verified and/or determined by reputable independent third party testing laboratories such as PI Berlin, Sandia National Labs, or a mutually acceptable third party lab. Repaired or replaced Products will be subject to this Limited Product Warranty for the remainder of the original Product warranty period.

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3. WARRANTY EXCLUSIONS:

THIS LIMITED PRODUCT WARRANTY SHALL NOT APPLY TO PRODUCTS THAT HAVE BEEN SUBJECT TO:

- (a) Use that is not consistent with Products' intended purpose and in accordance with Products' documentation;
- (b) Misuse, damage, abuse, neglect or accident; alteration, improper installation, application or removal, placed or mounted in an unsuitable physical or operating environment or maintained improperly; power failure or voltage surges, lightning, flood, fire, accidental breakage or other events outside Solaria's control;
- (c) Use with equipment not authorized by Solaria, including mirrors or other solar systems of any kind;
- (d) Damage or corrosion resulting from negligence or due to improper storage;
- (e) Damage to serial numbers, markings, legends or labeling, including being altered, defaced, or removed.
- (f) Damage from external stress, in excess of the Product's certified capabilities related to falling rocks, branches, roofing materials, hail or other debris;
- (g) Cosmetic defects stemming from normal wear and tear of the Product's materials or external stains, marks or scratches that do not affect performance or functionality and physical abuse
- (h) This limited product warranty shall not apply to normal wear and tear, aging or natural degradation that does not affect power output.
- (i) Any error, omission or defects caused by third party designs, data or technology;
- (j) Defects that result in reduced power output but does not render the power output of the Product below the Solaria's minimum warranted power output.

4. DISCLAIMER:

EXCEPT AS EXPRESSLY WARRANTED IN THIS LIMITED PRODUCT WARRANTY, THE PRODUCT IS PROVIDED "AS IS," AND CUSTOMER'S USE THEREOF IS AT ITS OWN RISK. SOLARIA DOES NOT MAKE, AND HEREBY DISCLAIMS, ANY AND ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED, STATUTORY OR OTHERWISE, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR

PURPOSE, AND NONINFRINGEMENT, AND ANY WARRANTIES ARISING FROM A COURSE OF DEALING, USAGE, OR TRADE PRACTICE. SOLARIA DOES NOT WARRANT THAT THE PRODUCTS WILL OPERATE WITHOUT INTERRUPTION OR WILL BE DEFECT-FREE, OR THAT THE PRODUCTS WILL MEET CUSTOMER'S REQUIREMENTS.

5. LIMITATION OF LIABILITY:

IN NO EVENT SHALL SOLARIA'S LIABILITY ARISING OUT OF OR RELATED TO THE PRODUCT OR CUSTOMER'S USE OF THE PRODUCT EXCEED THE AMOUNT PAID BY CUSTOMER FOR THE DEFECTIVE PRODUCT, AS EVIDENCED BY THE ORIGINAL INVOICE. IN NO EVENT SHALL SOLARIA BE LIABLE TO CUSTOMER, OR TO ANY THIRD PARTY FOR ANY LOSS OF PROFITS, SALES, BUSINESS, DATA OR OTHER INDIRECT, SPECIAL, INCIDENTAL, PUNITIVE, EXEMPLARY OR CONSEQUENTIAL DAMAGES, WHETHER ARISING IN CONTRACT, TORT, NEGLIGENCE OR STRICT LIABILITY, EVEN IF SOLARIA HAS BEEN INFORMED OF, KNEW OF, OR SHOULD HAVE KNOWN OF THE LIKELIHOOD OF SUCH DAMAGES.

6. DISCLOSURE:

SOME JURISDICTIONS DO NOT ALLOW CERTAIN DISCLAIMERS AND/OR LIMITATIONS SUCH AS THOSE SET FORTH IN THIS LIMITED PRODUCT WARRANTY AND SUCH DISCLAIMERS AND/OR LIMITATIONS MAY NOT APPLY.

7. GENERAL:

- (a) This Limited Product Warranty is governed by the laws of the State of California, without regard to its conflicts of law provisions. Customer hereby consents to the exclusive jurisdiction and venue of the state and federal courts located in the Northern District of California for all disputes related to the Products.
- **(b)** All disputes arising hereunder must be brought by Customer no later than one (1) year after the event giving rise to the dispute occurred.
- **(c)** The remedies in this Limited Product Warranty are Customer's sole and exclusive remedies and are in lieu of all other remedies at law or in equity, notwithstanding any failure of essential purpose.

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