



Solaria PowerXT®-400R-PM-AC

The Solaria PowerXT AC Panel combines the latest cutting-edge microinverter technology from Enphase with the premium high-efficiency and superior aesthetics of the Solaria PowerXT Panel. Utilizing the latest Enphase IQ7A platform the PowerXT AC Panel combines aesthetics and performance into an elegant product that reduces installation time by combining the inverter, panel and monitoring.

Achieving 20% efficiency, Solaria PowerXT AC solar panels are one of the highest power AC panels in the residential solar market. Compared to conventional panels, Solaria PowerXT panels have fewer gaps between the solar cells; this leads to higher power and superior aesthetics.

Solaria PowerXT Pure Black™ residential panels are manufactured with black backsheet and frames, giving them a striking appearance.

Higher Efficiency, Higher Power

Solaria PowerXT AC panels achieve up to 20% efficiency; conventional panels achieve 15% – 17% efficiency. Combined with Enphase IQ7A microinverter, the Solaria PowerXT AC Panel is one of the highest power and most efficient AC panels available.

Easy to Install

The integrated Enphase IQ7A microinverter reduces installation costs due to fewer balance of system components, improved two-wire cabling and compliance with NEC 2014 & 2017 rapid shutdown requirements.

Smart Grid Ready

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

Improved Aesthetics

Compared to conventional panels, the Solaria PowerXT AC Panel has a more uniform appearance and superior 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 250 issued and pending patents in PV solar cell and module technology. Headquartered in Oakland, California, Solaria has developed a technology platform that unlocks the potential of solar energy.



DC Input Performance at STC (1000W/m², 25° C, AM 1.5)

Solaria PowerXT-		400R-PM-AC
Max Power (P _{max})	[W]	400
Efficiency	[%]	20.2
Open Circuit Voltage (V _{oc})	[V]	51.1
Short Circuit Current (I _{sc})	[A]	9.82
Max Power Voltage (V _{mp})	[V]	42.4
Max Power Current (I _{mp})	[A]	9.41
Power Tolerance	[%]	-0/+3

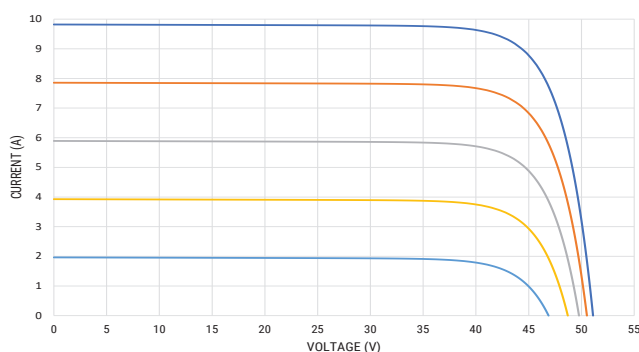
AC Output Data: Enphase IQ7A Microinverter

Peak Output Power	[VA]	366
Max Continuous Power	[VA]	349
Nominal Voltage	[V]	240
Max Continuous Current	[A]	1.45
Nominal Frequency	[Hz]	60
Extended Frequency Range	[Hz]	47-68
Peak Efficiency	[%]	97
Power Factor / Adjustable	[#]	0.85 leading...0.85 lagging
Max Branch Circuit	[A]	20
Max Panels/Circuit	[#]	11
Operating Temperature	[C]	-40 to +60

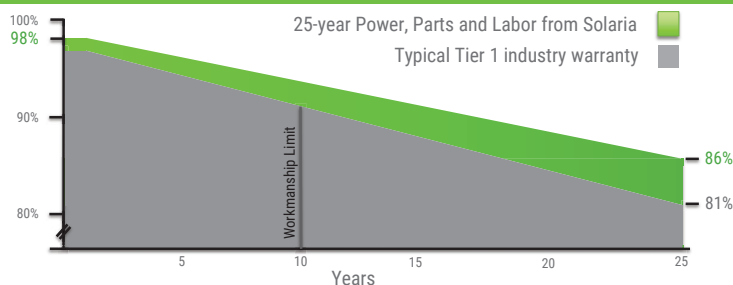
Features

Communication	Power Line Communication (PLC)
Monitoring	Enlighten Manager and MyEnlighten options
	Compatible with Enphase IQ Envoy
Disconnecting Means	Approved by UL for AC and DC load break as required by NEC Article 690
Rapid Shutdown	Compliant per NEC-2014 & 2017

IV Curves vs. Irradiance (400W Panel)



Comprehensive 25-Year Warranty



Mechanical Characteristics

Cell Type	Monocrystalline Silicon
Dimensions (L x W x H)	64.72" x 47.4" x 1.57"
	1644mm x 1204mm x 40mm
Weight	22 kg / 48 lbs
Glass Type / Thickness	AR Coated, Tempered / 2.84mm
Frame Type	Black Anodized Aluminum
DC Cable Type / Length	Q DC / 900(+), 850mm(-)
AC Cable Type / Length	Q AC / 2000mm
Junction Box	IP67 / 4 diodes
Front Load	5400 Pa / 113 psf*
Rear Load	2400 Pa / 50 psf*

* Refer to Solaria Installation Manual for details

Certifications / Warranty

Certifications	UL 61730/UL1741/CEC CAN/CSA-C22.2
NEMA	3R
Fire Type	Type 1
Warranty	25 years*

* Warranty details at www.solaria.com

Packaging

Stacking Method	Horizontal / Palletized
Panels / Pallet	25
Pallet Dims (L x H x W)	66.57" x 48.7" x 48.4"
	1691mm x 1238mm x 1230 mm
Pallet Weight	615 kg / 1360 lbs
Pallets / 40-ft Container	18
Panels / 40-ft Container	450

