

SunPower[®] X21-350-BLK-D-AC | Residential AC Module Series

Design-Driven Advantages

- #1 module aesthetics and efficiency¹
- Unmatched module reliability²
- No electrolytic capacitors
- 25-year Complete Confidence Warranty
- · California Rule 21 Phase 1 compliant

Maximize Value for Roof

- Size system for roof, not string inverter
- Optimize performance of each module

Expand Deployment Options

- · Complex roofs and partial shading
- Small systems
- System expandability

Simplify & Speed Installation

- Factory-integrated microinverter
- Robust, double-locking AC connectors
- Design flexibility offsite and onsite
- No DC string sizing process
- Fewer installation steps than competing systems
- Intuitive commissioning

Component of Complete System

- Built for use with SunPower[®] InvisiMount[™] and the SunPower Monitoring System (PVS5x)
- Superior system reliability and aesthetics





Optimize System and Installation Efficiency

SunPower® AC modules, which include a factory-integrated SunPower microinverter, provide a revolutionary combination of high efficiency, high reliability, and module-level DC-to-AC power conversion. Designed specifically for use with SunPower InvisiMount[™] and the SunPower Monitoring System, SunPower AC modules enable rapid installation, bestin-class system aesthetics, and intuitive visibility into system performance. All this comes with the best Combined Power and Product Warranty in the industry.

Grid Support Utility-Interactive Smart Inverter

SunPower's new Type D AC module is UL tested and certified to UL 1741 SA and provides advanced smart inverter functions. SunPower Type D AC modules are fully compliant with the California Rule 21 Phase 1 requirements, and the Rule 21 grid profile is easily set during commissioning with SunPower PVS5x monitoring hardware.

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		AC Electrical Data ³	
SRD Profile		IEEE 1547a-2014 ³ (default settings) min. / nom. / max.	CA Rule 21 ³ min. / nom. / max.
Frequency (Hz)		59.5 / 60.0 / 60.5	58.5 / 60.0 / 60.5
Power Factor		0.99 / 1.00 / 1.00	0.85 lead. / 1.00 / 0.85 lag.
Reactive Power			±169 Var Volt-VAr
Voltage	@240 V @208 V	211.2 / 240 / 264 V 183 / 208 / 228.8 V	
Max. Current	@240 V @208 V	1.33 A 1.54 A	
DC/AC CEC Conversion Efficiency	@240 V @208 V	96.0% 95.5%	
Max. Units Per 20 A Branch Circuit	@240 V @208 V	12 (single phase) 10 (two pole) wye	
Power		320 W, 320 VA	
No active phase balancing for 2 phase in	sctallations		

No active phase balancing for 3 phase installations

DC Power Data			
	X21-350-BLK-D-AC	X21-335-BLK-D-AC	X20-327-BLK-D-AC
Nominal Power ⁴ (Pnom)	350 W	335 W	327 W
Power Tolerance	+5/-0%	+5/-0%	+5/-0%
Panel Efficiency ⁵	21.5%	21.0%	20.4%
Temp. Coef. (Power)		-0.29%/° C	
	٠	Three bypass diod	es
Shade Tolerance	 Integrated mc 	dule-level maximur	m power point
		tracking	

Tested Operating Conditions		
Operating Temp.	–40° F to +149° F (–40° C to +65° C)	
Max. Ambient Temp.	122° F (50° C)	
Max. Load	Wind: 62 psf, 3000 Pa, 305 kg/m² front & back	
	Snow: 125 psf, 6000 Pa, 611 kg/m² front	
Impact Resistance	1 inch (25 mm) diameter hail at 52 mph (23 m/s)	

Mechanical Data		
Solar Cells	96 Monocrystalline Maxeon Gen III	
Front Class	High-transmission tempered glass with anti-	
FI UTIL GIASS	reflective coating	
Environmental Rating	Outdoor rated	
Frame	Class 1 black anodized (highest AAMA rating)	
Weight	45.5 lbs (20.6 kg)	
Recommended Max.	1 2 := (22 ===)	
Module Spacing	1.3 IN. (33 MIM)	

¹ SunPower 327 W compared to a conventional panel on same-sized arrays (260 W, 16% efficient, approx. 1.6 m²), 4% more energy per watt (based on PVSyst pan files), 0.75%/yr. slower degradation (Campeau, Z. et al. *SunPower Module Degradation Rate.* San Jose CA, 2013).
² Based on search of datasheet values from websites of top 10 manufacturers per IHS, as of January 2017.

³ #1 rank in "Fraunhofer PV Durability Initiative for Solar Modules: Part 3." *PV-Tech Power*,
 September 2015; Campeau, Z. et al. *SunPower Module Degradation Rate*. San Jose CA, 2013.
 ⁴ Factory set to 1547a-2014 profile. CA Rule 21 profile set during commissioning. See the *Equinox Installation Guide #518101* for more information.

⁵ Standard Test Conditions (1000 W/m² irradiance, AM 1.5, 25°C). NREL calibration standard: SOMS current, LACCS FF and voltage. All DC voltage is fully contained within the module.

See www.sunpower.com/facts for more reference information.

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	Warranties and Certifications
Warranties	 25-year limited power warranty
	 25-year limited product warranty
Certifications	UL listed to UL 1741 SA
	 SRDs: IEEE 1547-2003, IEEE 1547a-2014, CA
	Rule 21 Phase 1
	 PV Rapid Shutdown Equipment
	 Equipment Grounding
	\cdot UL 6703, UL 9703 Connectors and cables
	(load break disconnection)
	 UL 1741 AC Module (Type 2 fire rating)
	Enables installation in accordance with:
	• NEC 690.6
	 NEC 690.12 Rapid Shutdown (inside and outside the array)
	\cdot NEC 690 15 AC Connectors 690 33(A) – (E)(
	FCC and ICES-003 Class B
	When used with InvisiMount racking (UL 2703):
	 Integrated grounding and bonding
	Class A fire rated
PID Test	Potential-induced degradation free



Please read the safety and installation instructions for details.

527031 RevA

Module Fire Performance: Type 2

SUNPOWER[®]