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Anker SOLIX X1

Energy Storage System

Power for the Extreme

Anker at a Glance

Anker Innovations is a global leader in smart charging technology and a developer of consumer products for life at home, in the car, and on the go.

Since its founding in 2011, Anker products have sold to more than 140 countries and regions around the world, with more than 140 million users.

Join us as we create powerful and limitless possibilities.

2011

Anker is founded.

2012

Anker becomes the top portable charging brand on Amazon US.

2013

Anker develops PowerIQ technology, the fastest charging technology in the industry.

2014

Anker becomes a bestseller in small portable batteries on Amazon North America, Europe, Japan, and other markets.

2015

Anker launches its first portable power station.

2016

Anker products go on sale in Best Buy and Walmart to expand offline market channels.

2017

Anker launches a multi-brand strategy with the creation of eufy and soundcore.

2018

Anker becomes a GaN (Gallium Nitrade) pioneer, launching chargers that are smaller, lighter, and more portable with USB-C Power Delivery.

2020

Anker introduces its PowerHouse portable power station series at CES.

2021

Anker celebrates its 10-year anniversary and becomes the world's No.1 mobile charging brand.*

2022

Anker launches its portable power station series in Australia and New Zealand.

2023

Anker launches the Anker SOLIX brand to expand into the home energy solutions market.

*Anker is the No. 1 mobile charging brand in the world in terms of the retail sales value in (3 consecutive years of) 2020, 2021, and 2022.
Data source: Euro Monitor International (Shanghai) Co., Ltd., measured in terms of retail value sales in 2020, 2021, and 2022, based on research conducted in October 2023. Mobile charging brands are defined as brands ifmore than 75% of their retail sales are contributed by mobile phone charging products. Mobile phone charging products include chargers, wireless chargers, power banks, and charging cables, and these accessories can also be used for other consumer electronics devices.

Brand Story

Electricity is the life force of our modern society, illuminating our homes and enriching our lives with technology. But this power behind our life is at risk due to the escalating environmental issues, marred by growing outages and surging instability. Even North America and Europe aren't immune to the issue.

At Anker, we've committed the last eight years to solving the problem with the goal of empowering our customers with energy independence. Now, we are ready to take another step forward.

Introducing Anker SOLIX, a consumer energy series offering reliable, intuitive, and sustainable power solutions for every household into the future.

Powering All Life Scenarios

With solar and energy storage technology, Anker SOLIX gives you complete control of your power Whether you are enjoying the great outdoors, living life on the road, or setting up a home energy system, you can enioy anytime electricity to live in power.

eXtreme Series

Effortless Series

Flexible Series

Camping Series

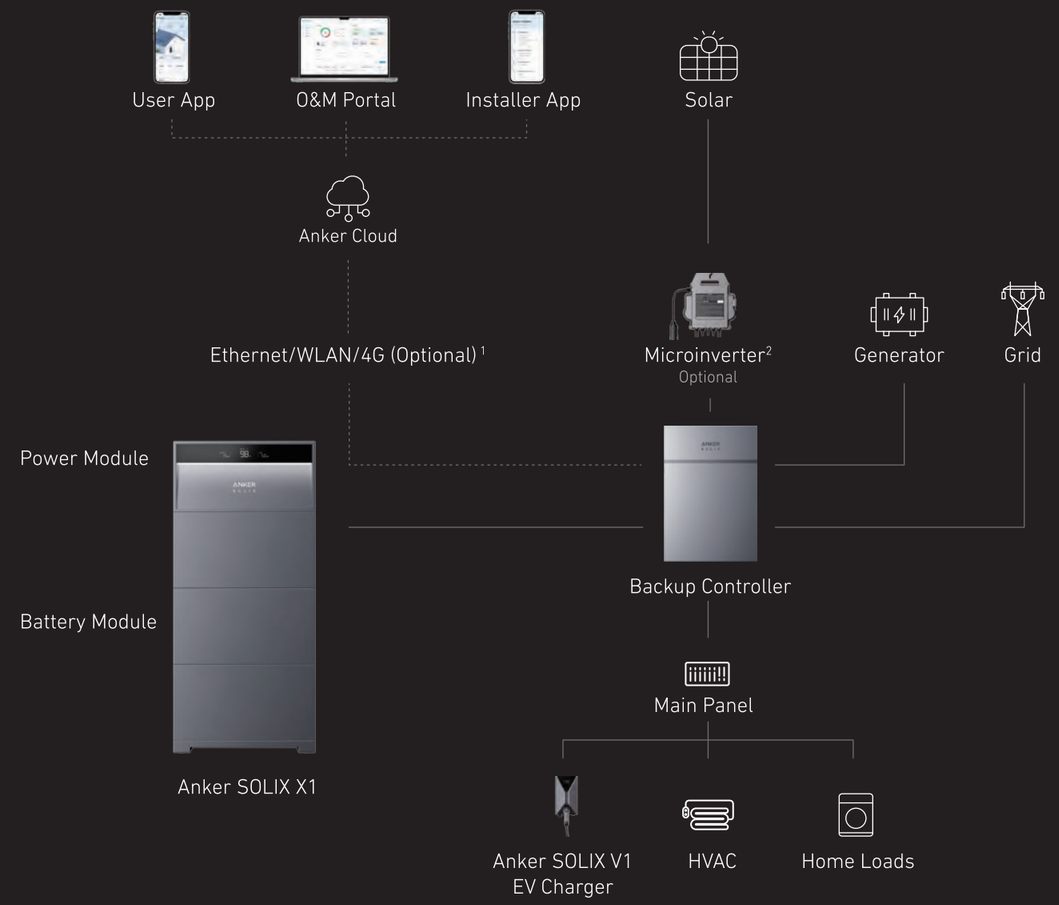
Power for Living

Anker SOLIX X1 is an extreme performance energy storage system that combines a 5.9" ultra-thin design, module-level power optimization, and reliable power in all circumstances. It can provide whole-home backup power during outages, helping you achieve energy independence and reduce electricity costs.

With Anker SOLIX's microinverter, you can further increase your green energy usage, moving closer to complete energy independence.

All of this combines to make Anker SOLIX X1 the intelligent solution for sustainable living and energy independence.

Images are for demonstration purposes only.



What Anker SOLIX Offers

Images are for demonstration purposes only. Please refer to the installation guide for guidance.
1. 4G communication functions are available through Anker Mobile Dongle (optional).
2. Please refer to the Anker SOLIX website for product availability.

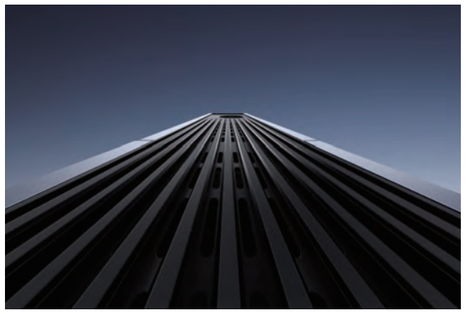
reddot winner 2024

Images are for demonstration purposes only.

Interactive Light Strip

5.9" Ultra-Thin

Streamlined Grille



Starry Night Screen

Images are for demonstration purposes only.

3-36KW 5-180kWh

With Modular Design

Customize your capacity and output to fit your home's needs. Each Anker SOLIX X1 contains a 5kWh battery pack, which can be set up as a system for 30kWh of capacity.

2350kWh More Power*

Innovative Energy Optimizer

The Innovative Energy Optimizer balances battery packs for independent charging and discharging, avoiding power decay due to differing SoC and SoH. Over the battery's lifespan, you can access up to 5% more usable energy.

*Calculation based on X1's 15kWh batteries compared to a traditional home battery over 10 years.
Images are for demonstration purposes only.

100% Power From -4°F to 131°F

Its robust charging and discharging remains consistent from -4°F to 131°F.

<20ms
Switchover

The advanced backup controller detects outages and switches to backup power in 20 milliseconds. Enjoy the seamless connection to keep life powered on.

110% Rated Power
While Off-Grid

During outages, X1 increases output to 110%* of its normal output thanks to extra thermal components. So run several appliances at once, worry-free.

24/7 Power During Outages
Always-On Power

If a lengthy outage occurs, unlimited solar energy keeps you powered. Solar panels continue charging the batteries, giving you home power for several weeks**.

*Available only in off-grid operation, within ambient temperatures of -4°F to 113°F, and requires a minimum of 3 battery modules in the system.
**Off-grid power supply duration varies upon several factors, including power consumption, weather, and system configuration, which results in different capacity and output levels.

Reliable System with 10-Year Warranty

NEMA 4

Images are for demonstration purposes only.

Long-Lasting LFP Batteries

Auto-Isolation of Abnormal Batteries

Shock-Free Safety with 0V DC Shutdown

C5 Anti-Corrosion Rating

Install X1 along the shore without worry.
Its C5 protection prevents corrosion.

Enjoy the Most User-Friendly Interface, the Anker App

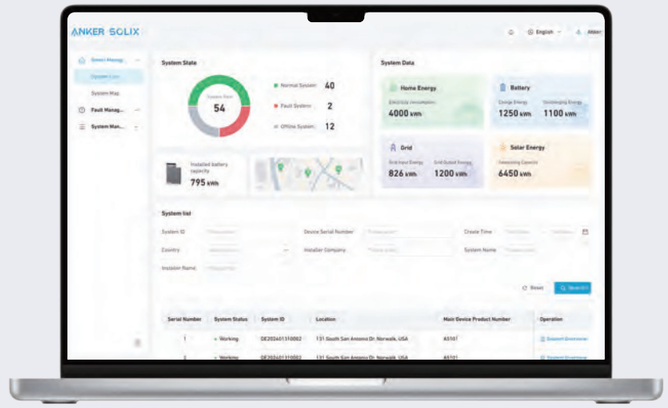
See your current household energy usage on full display, refreshed in real time.
A single page reveals energy statistics calculated by day, week, month, and year.

UX DESIGN AWARDS
nominated 2024

Intuitive User Experience

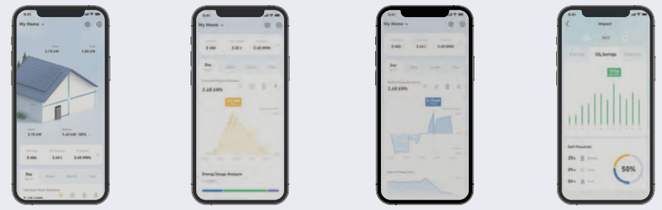
Anker SOLIX Professional
O&M Portal

Monitor thousands of devices in one place, achieving easy maintenance with less effort and greater simplicity.



Anker App
User App

Manage all your energy in one place and optimize system performance for smarter, more efficient energy storage.



Manage All Your Data | Summarize by History | Customized Data Viewing | Earnings at Your Fingertips

Storm Guard Mode

When the National Weather Service issues alerts, the system starts charging so you have maximum backup power for your home.

NEM 3.0 Mode

Profit from your power. In California, X1 earns max revenue by selling solar generated power when prices are high.

Anker SOLIX MI80 S/L

Microinverter

Images are for demonstration purposes only.

SolarFlex Always Delivers Full Power

100% Power from

-40°F to 149°F

Flexible and Scalable

Flexible and Scaleable

With a string inverter, a single panel or inverter failure crashes the system. Microinverters allow independent operation, so if a malfunction happens, your solar power always stays online.

Solar That Scales With You

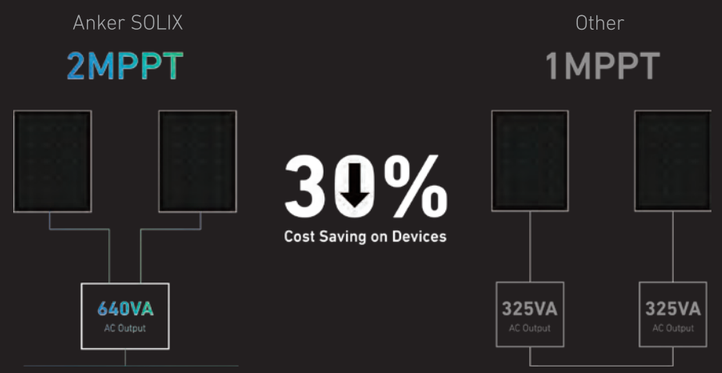
Modular Solar Outshines Complex Conditions

Extreme Solar Power System Stability

Reduce Fire Risk with Safe 60V Operation

Dual MPPTs Lower Costs by 30%

Keep more of your money with advanced tech that lowers your equipment costs by 30%. Anker SOLIX Microinverter features dual MPPTs, supporting more solar panels than single MPPT tech.



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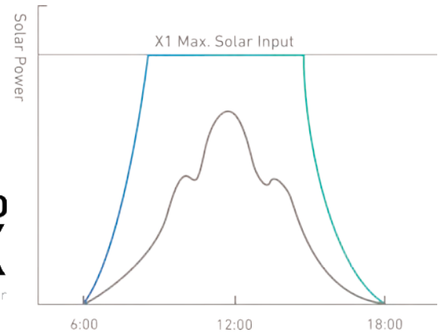
SolarFlex

SolarFlex is an innovative communication and coordination technology designed for Anker SOLIX solar storage systems. It enables real-time information exchange between components for reliable efficiency. Maximize the number of installable solar panels optimized for low-light conditions with supportable wattage from a few hundred watts all the way to 20,000 watts.

SolarFlex Always Delivers Full Power

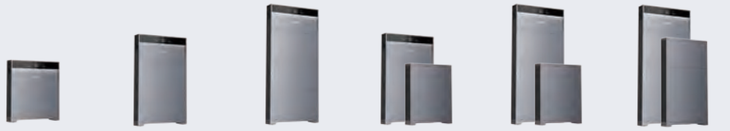
Even when your home is limited by challenging climate or shade, other solar panels compensate to generate up to 3 times the output of the average solar power system. Your appliances keep running and your energy storage keeps charging.

UP TO
3X
Solar Power



Seamless Integration and Hassle-Free Maintenance

Anker SOLIX X1 | AC-Coupled Energy Storage System



X1-P6K-B05-US | X1-P6K-B10-US | X1-P6K-B15-US | X1-P6K-B20-US | X1-P6K-B25-US | X1-P6K-B30-US

Battery						
Battery Type	LFP					
Battery Capacity	5 kWh	10 kWh	15 kWh	20 kWh	25 kWh	30 kWh
Aggragate Throughput	16.5 MWh	32.9 MWh	49.4 MWh	65.8 MWh	82.3 MWh	98.7 MWh
AC Output (On-Grid)						
Rated Output Power	3 kW	6 kW				
Max Apparent Power Output	3 kVA	6 kVA				
Rated Output Voltage	240 VAC					
Rated Frequency	60 Hz					
Power Factor	~1 (+/-0.8)					
THDI @ Rated Power	Under 3%					
AC Output (Off-Grid)						
Rated Output Power	3 kW	6 kW	6.6 kW*			
Peak Output Power (Duration)**	4.5 kW (10s)	9 kW (10s)	12 kW (10s)			
Max Units In Parallel	6					
Rated Output Voltage	120/240 VAC (Split-Phase)					
Rated Frequency	60 Hz					
THDU @ Linear Load	Under 3%					
Switch Time	Under 20 ms					
LRA	70 A/s					
AC Input						
Max Input Apparent Power	3 kVA	6 kVA				
Efficiency						
Round Trip Efficiency	Up to 90.2%***					
Connectivity						
Internet Connectivity (Via Backup Controller)	WLAN, Bluetooth, Ethernet, 4G (Optional)					
Other						
Weight	164 lbs	277 lbs	389 lbs	514 lbs	626 lbs	739 lbs
Dimensions (W×H×D)	26.4 × 29.4 × 5.9"	26.4 × 43.6 × 5.9"	26.4 × 57.8 × 5.9"	One Column: 26.4 × 43.6 × 5.9" Two Columns: 26.4 × 32.4 × 5.9"	One Column: 26.4 × 57.8 × 5.9" Two Columns: 26.4 × 32.4 × 5.9"	One Column: 26.4 × 57.8 × 5.9" Two Columns: 26.4 × 46.6 × 5.9"
Noise	Under 35 dB (Ambient Temperature < 104 °F) Under 40 dB (Ambient Temperature > 104 °F)					
Installation Options	Wall or Ground****					
Operating Temperature	-4 °F to 131 °F*****					
Relative Humidity	5% to 95%					
Operating Altitude	Up to 13,123 ft, Power Derates from 6,562 ft					
Enclosure Type	NEMA 4					
Warranty	10 Years Limited******					
Grid Connection Certifications	UL 1741 SB, IEEE1547a, IEEE1547, IEEE1547.1, IEEE2030.5, Rule 21, HECO					
Safety	UL1741, UL60730, UL1973, UL9540, UL9540A, UL67, UN38.3					
EMC	FCC Part 15B					

Backup Controller

Backup Controller 200-H

AC Voltage (Nominal)	120/240 V
Feed-In Type	Split-Phase
Grid Frequency	60 Hz
Input/Output Current Rating*******	200 A Maximum, 160 A Continuous (EATON CSR2200N Breaker)
Storage Circuit Current Rating	2× 100 A Maximum, 2× 80 A Continuous********
PV Circuit Current Rating	100 A Maximum, 80 A Continuous********
Generator Circuit Current Rating	100 A Maximum, 80 A Continuous********
Connectivity	WLAN, Ethernet, Bluetooth, 4G (Optional)
Switch Time	Under 20 ms
Dimensions (W×H×D)	21.7 × 31.5 × 5.8"
Weight	35 lbs
Installation	Wall
Operation Temperature	-4 °F to 131 °F
Enclosure Type	NEMA 3R
Certifications	UL67, UL1741, TSCA, CP65, PFAS
Emissions	FCC Part 15B, ICES-003
Warranty	10 Years Limited*********

*Power output will be derated to 6 kW once the ambient temperature exceeds 113 °F.
**Ambient temeperature of 50 °F to 131 °F with a State of Charge (SOC) greater than 35%.
***AC to Battery to AC at an ambient temperature of 77 °F.
****Additional components are needed for ground installation.
*****Power output of the 5/10 kWh system will be derated once the ambient temperature exceeds 113 °F.
******Refer to warranty terms for details.
*******The Backup Controller is rated at 22 kAIC.
********The type of breaker used in this circuit is an EATON BR Series Breaker.
*********Refer to warranty terms for details.

Mobile Dongle

VCB-5106L6-WB-AK

Cellular Networks	
Frequencies	Cat M1: LTE FDD: B1/2/3/4/5/8/12/13/14/18/19/20/25/26/27/28/66/85
Speed	Cat M1: Max 588Kbps (DL), Max 1119Kbps (UL)
Antenna	Bulit-in, LDS, Gain: 3.81 dBi
TX Power	17 dBm +1/-1.5 dB for B2/4/5/12/13/66
Sensitivity	LTE FDD B2-96.2 dBm LTE FDD B4-95.2 dBm LTE FDD B5-94.7 dBm LTE FDD B12-94.3 dBm LTE FDD B13-95 dBm LTE FDD B66-93.9 dBm
Interface	
RS-485	1
Power Input	Input Voltage: 5V to 12V DC
Environment	
Operating Temperature	-40 °F to 158 °F
Storage Temperature	-40 °F to 158 °F
Relative Humidity	5% to 95% Non-Condensing
LED Indicators	
Power	Off: Power Off On: Power Supplied from DC Input
Network	Off: Power Off On: Normal Internet Connection Flashing: Disconnected from Internet
Physical Attributes	
Dimensions (W×H×D)	4.22 × 1.93 × 1.45"
Case Material	Plastic
Enclosure Type	NEMA 4
Warranty	
Warranty	5 Years

Anker (User App)

App Features	
Operating System	Android / iOS
Rapid Battery Charging	Enable / Disable
SOC Setting	0%-100%
Power Sources Monitor	Working Status, Current Flow
Historical Data	Daily, Weekly, Monthly, Yearly
Grid Charging	Enable / Disable
Account Security	Password Verification Support
EMS Modes	Self-Consumption
	Time of Use
	NEM 3.0
	Rapid Battery Charging
	Storm Guard

Anker SOLIX Professional (Installer App)

App Features		
Power Site Management	Power Site Lists	Search / System ID / Device Location / System Name
		Add System / Delete System
System Build	Collect Owner Details	Location Map
	Search Device (Bluetooth)	Self-Search / Scan to Connect
	Configure System Network	Multiple Network Connections
	Add Devices	Add Devices
	Update System	Update System
System Configuration	Select Grid Code	Grid Parameters
	Power On System	Power On
System Testing	Wiring Inspection	Communication Fault Detection
		Ground Fault Detection
	On-Grid / Off-Grid Functional Testing	On-Grid Functional Testing
		Off-Grid Functional Testing
Post Commissoning	Delivery	Validation Code / Email to Customer
	EMS Strategy	Self-Consumption
		Time of Use
		NEM 3.0
		Rapid Battery Charging
		Storm Guard
	External Device Configuration	Heat Pumps / Generators

Anker SOLIX Professional (O&M Portal)

Web Features		
Intelligent Monitoring	System List	System Status
		System Data
		Battery Installation Data
		Map
		System List Display
	System Map	Search
		Map
		Basic Data
		System Monitor of Entries
	System Monitoring	System Overview
		Energy Statistics
		Device Details
		Fault Information
		Advanced Parameter Settings
Fault Management	Fault Information Management and Pushes	Fault List
		Fault Push Configuration
		Fault Push Information
System Management	User Management and Permission Allocation	User Management
		Role Type Management
		Role Management
		Organization Management

Microinverters

MI80S

MI80L

Input Data (DC)		
Operating Voltage Range	26 - 60 V	
Maximum Input Voltage	60 V	
Maximum Input Current	2× 16 A	2× 18 A
Maximum Input Short Circuit Current	20 A per Input	22.5 A per Input
Output Data (AC)		
Maximum Continuous Output Power	640 VA	768 VA
Nominal Output Voltage/Range*	240 V	
Nominal Output Current	2.7 A	3. 2 A
Maximum Output Fault Current (AC) and Duration	5.7 Apk, 26.8 ms Duration, 3.3 Arms	
Nominal Output Frequency/Range*	60 Hz/58.8 Hz - 61.2 Hz (HECO: 57-63 Hz)	
Power Factor (Default/Adjustable)	0.99/0.8 Leading, 0.8 Lagging	
Maximum Units per 12AWG Branch**	6 (20 A Breaker)	5 (20 A Breaker)
Efficiency		
Peak Efficiency	97.3%	
CEC Efficiency	97.0%	
Nominal MPPT Efficiency	99.5%	
Nighttime Power Consumption	20 mW	
Mechanical Data		
Operating Ambient Temperature Range***	-40 °F to 149 °F	
Storage Temperature Range	-40 °F to 185 °F	
Dimensions (W × H × D)	10.3 × 8.6 × 1.7"	
Weight	6.8 lb	
DC Connector Type	Stäubli MC4 PV-ADBP4-S2&ADSP4-S2	
Cooling	Natural Convection - No Fans	
Enclosure Environmental Rating	Type 6	
Features		
Communication (Inverter To Zigbee Dongle)****	Encrypted Zigbee	
Isolation Design	High Frequency Transformers, Galvanically Isolated	
Energy Management	Anker SOLIX Professional (O&M Portal) Anker SOLIX Professional App (Installer) Anker App (User)	
Warranty*****	10 Years Standard, 25 Years Optional	
Compliance	UL1741; CSA C22.2 No. 107.1-16; UL1741SA; UL1741SB; IEEE1547; Rule 21; SRD-V2.0; FCC Part 15; ICES-003; NEC2014 & NEC2017 & NEC2020 Section 690.11 DC Arc-Fault circuit Protection; NEC2014 & NEC2017&NEC2020 Section 690.12 Rapid Shutdown of PV Systems on Buildings	

*Nominal voltage/frequency range can be extended beyond nominal if required by the utility.
**Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.
***The inverter may degrade power under poor ventilation and heat dissipation environments.
****We recommend no more than 80 inverters be registered to one Zigbee Dongle for stable communication.
*****To be eligible for the warranty, Anker SOLIX microinverters need to be monitored via the Anker cloud. Please refer to our warranty policy.

Zigbee Dongle

Zigbee Dongle

Communication to Microinverter	
Communication	Zigbee 2.4 GHz
Maximum Communicating Inverters*	80
Communication to Internet	
Ethernet	10/100M Auto-Sensing, Auto-Negotiation
Wireless	WLAN 802.11 g/n
Wireless Security	WEP, WPA2-PSK
USB Interface	5 VDC - 0.5 A Output
Power Data	
Power Supply	5 V, 2 A
Power Consumption	1.7 W
Product Specifications	
Frequency Range	2,412 - 2,472 MHz (WLAN), 2,405 - 2,480 MHz (Zigbee)
RF Output Power	(EIRP) 16.6 dBm (WLAN), 9.5 dBm (Zigbee)
Type of Antenna	External Antenna, SMA Type Connector
Modulation	DSSS, OFDM
Mode of Operation (Simplex/Duplex)	Duplex
Mechanical Data	
Dimensions (W × H × D)	4.8 × 3.4 × 0.98"
Weight	0.33 lb
Operating Ambient Temperature Range	-4 °F to 149 °F
Cooling	Natural Convection, No Fans
Enclosure Environmental Rating	Indoor - NEMA 1 (IP20)
Warranty	3 Years Standard
Compliance	ANSI/UL 60950-1, CAN/CSA C22.2 No.60950-1, UL50E, FCC Part 15

*Maximum number of microinverters per Zigbee Dongle may vary depending on the PV array size and layout, maximum distance between Zigbee Dongle and microinverters in the array, and obstacles (thick concrete wall, and metallic roof top).

Local Sales Team

Local offices and sales staff catering to the entire country.

Local Call Center

Fast-responding service for both business partners and consumers.

Local R&D Team

Local based laboratory develops solutions tailored for the US market.

Local Service Team

One-on-one technical expert support, covering both pre-sales and after-sales services.

Local Sales Team

Over 6 local warehouses and refurbishment center ensure efficient logistics and after-sales service.

ANKER SOLIX