



# Pika Energy Island™

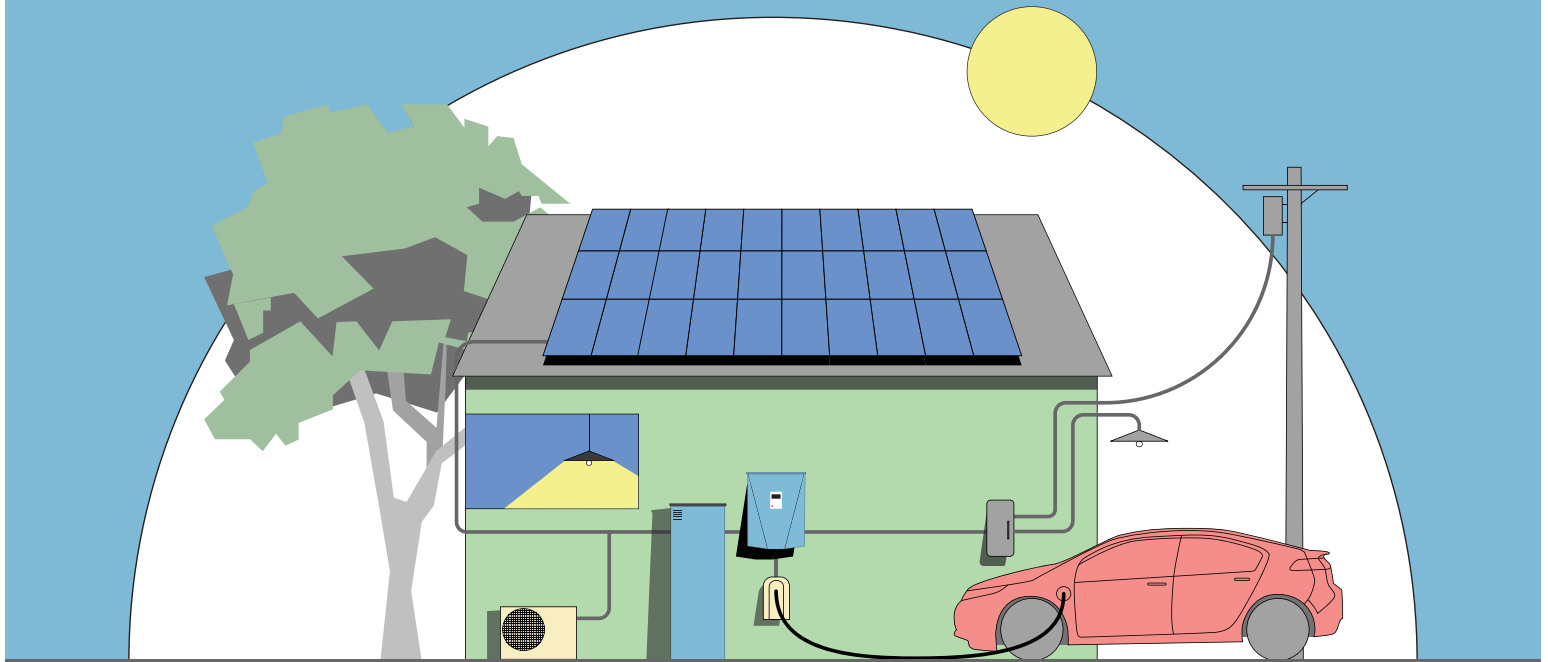
from  Pika  
ENERGY



## Smart power on demand

The Pika Energy Island is the award-winning smart energy management platform that combines solar PV with optional battery storage to power your home or business with or without a grid connection.

Use clean power and smart batteries to manage your electrical costs and back up your most important loads with automated performance. Start making your own clean, on-demand power today.



### More Power

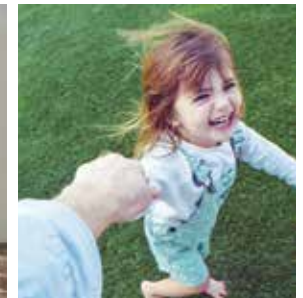
Back up your most important loads with more power than other solar-plus-storage systems. The Pika Energy Island's smart battery integration is the clean alternative to a gas generator.

### Smart Features

With built-in operational modes for Clean Backup and Self-Supply, the Pika Energy Island provides automated, smart energy management perfect for all homes and businesses.

### Future-Ready

Keep your energy options open. Add batteries to your system today for clean backup power, or add batteries later to secure your solar investment against future utility rate changes.



Pika Energy products are proudly designed and manufactured in the United States.



Made in the USA 

The hub of the Pika Energy Island™



The Pika Energy Island begins with a smart, battery-ready power center. With grid-forming capability and automatic transfer switching to power protected loads, the Pika Islanding Inverter requires no autotransformer for islanding and no additional hardware interface for smart batteries. User-friendly operating modes and online monitoring give system owners full control of their clean energy resources. As the hub of the Pika Energy Island, the Pika Islanding Inverter is the all-in-one, U.S.-made device for simple, flexible, and future-ready solar energy management.

- 7.6kW 120/240VAC output (1Ø)
- 11.4kW 120/208VAC output (3Ø)
- 98% peak efficiency
- Storage-ready for direct coupling of smart batteries
- Transformerless islanding
- 8000W of protected load support
- Automatic transfer switch for protected loads
- Built-in DC combiner for PV, batteries and DC loads





### Applications:

- Grid-tie, with or without batteries
- Self-Supply, Zero-Export
- Load shifting / demand charge reduction
- Clean backup power
- Available in single-phase and three-phase models

### Features:

- High-efficiency coupling to PV and batteries
- Lightweight, slim NEMA 3R enclosure
- Built-in automatic 50A bypass switch
- Flexible transfer switch options
- Auxiliary grid sensing
- Made in the United States



Specifications	X7600 Series	X11400 Series	Unit
Rated AC Power Output	7600	11400	W
AC Output Voltage	120/240, 1Ø	120/208, 3Ø	VAC
Peak Efficiency	97%	98%	-
CEC Efficiency	96.5%	97.5%	-
Charge Battery from AC		Yes	-
Rated AC Backup Power Output		8000	W
AC Circuit Breaker		50	A
DC Input Voltage, Nominal (REbus)	380; REbus™ DC nanogrid (DC plus data)		VDC
Protections	NEC 2014 rapid shutdown, GFID, Reverse-Polarity		-
Topology	Transformerless, ungrounded, single-stage; non-isolated		-
Safety Standards	UL-1741, CSA 22.2		-
Grid Connection Standards	IEEE 1547, (In progress: Hawaii TrOV2, FVRT)		-
Emission Standards	FCC part15 class B		-
Operational Modes	Grid export, islanding, self-supply, clean backup, priority backup		-
Communication Interfaces	CANbus, RS485, Modbus, Ethernet		-
Noise	< 40		dBA
Min-Max Operating Temperature	-20 to +50		°C
Enclosure	Outdoor-rated, NEMA 3R powder coated steel chassis		-
Dimensions	24.5 x 19.25 x 8		In
Weight	62.7		Lb
Warranty	10 years, extendable to 20 years		-



### Advantages:

- Fast, simple installation
- Lower failure risk than module-level optimizers
- Rapid Shutdown compliant
- Accurate monitoring for each substring
- Ground-fault protection
- Robust ceramic capacitors

### Features:

- Quick connections with MC4 connectors
- 2500W capacity
- Compatible with high-voltage smart batteries
- Cost-effective solution for high-performance PV
- 25-year limited warranty



### Fast. Flexible. Safe.

PV Link is the simple solar optimizer for quick installation and long-lasting performance. Connect as few as two or as many as nine PV modules to each PV Link to overcome shading and challenging roof lines.

Specification	PV Link Model S2501	Unit
Rated power	2500	W
Peak efficiency	99%	-
MPPT voltage range	60-360	VMP
Max input voltage	420; max when cold	VOC
Max output	420	VOC
Nominal output (REbus™)	380	VDC
Max output current	8	A
Standby power	<1	W
Topology	Boost converter	-
Protections	Ground-fault protection	-
Max operating temp	70	°C
Remote monitoring	Via REview™ web dashboard	-
Enclosure	Type 3R	-
Weight	7.3	Lb
Dimensions	2 x 15.4 x 9.6	In
Limited warranty	25 years	-



### Featuring Swift-Rack™ installation

The Harbor Flex smart battery offers homeowners a high-performance energy storage system at an attractive installed price per kilowatt-hour. Featuring Panasonic DCB-105 lithium ion battery modules, the Harbor Flex can be expanded to make a Harbor Plus™ smart battery with even more energy and power capacity, making it simple for system owners to accommodate their changing energy needs. This scalable and flexible smart battery unit is designed for solar-plus-storage applications including self-supply, rate arbitrage and clean backup power.

### Feature Overview

- Powered by Panasonic Li-Ion Battery Technology
- 136% of the continuous power of other DC-coupled batteries
- 114% of the usable capacity of other DC-coupled batteries
- 10.6kWh usable energy, expandable to 15.9kWh
- 4.5kW continuous power, expandable to 6.7kW
- Faster installation time via Rapid-Rack design; 1-2 technicians can install Harbor in under an hour

The Harbor Flex smart battery contains four Panasonic DCB-105 2.65kWh battery modules connected in series.

Specification		Units	Note
Total Energy	13.52	kWh	Total energy capacity
Usable Energy	10.6	kWh	Automatically-controlled optimal DoD
Power (Continuous)	4.5	kW	Charge and discharge
Power (Surge)	10.0	kW	-
Battery Modules	4	-	Touch-safe Panasonic DCB-105
DC Voltage (Output)	360 - 420	VDC	380VDC nominal
DC Voltage (Per Module)	46.8	VDC	Nominal DC voltage
DC Current (Internal)	24	A	-
Round-Trip Efficiency	>90	%	PV > battery > load
Operating Temp. Range	0-50, (32-122)	°C, (°F)	Extreme temps may affect performance
Recommended Temp. Range	13-30, (54-86)	°C, (°F)	100% rated performance
Dimensions	68 x 22.5 x 9.5, (1718 x 561 x 241)	in, (mm)	Approx., (H x W x D)
Weight (Enclosure)	115, (52)	lb, (kg)	42lb Cover, 73lb Chassis
Weight (Batteries)	220, (100)	lb, (kg)	55lbs / module
Weight (Total)	335, (152)	lb, (kg)	-
Communication Protocol	REbus DC Nanogrid™	-	Power Line Carrier
Compliance	UL 9540, UL 1741, UL 1973, UL 1642	-	-
Warranty	10	years	-



### Featuring Swift-Rack™ installation

The Harbor Plus smart battery is the choice of homeowners who want more usable energy and higher power capacity from their solar-plus-storage system. Featuring Panasonic DCB-105 lithium ion battery modules, Harbor Plus offers an industry-leading combination of usable capacity, continuous power and surge power for starting up and supporting large household loads. The scalable, flexible Harbor Plus is ideal for clean backup power, self-supply and rate arbitrage.

### Feature Overview

- Powered by Panasonic Li-ion Battery Technology
- High storage capacity with 15.9kWh usable energy in a compact, easy-to-install enclosure
- Expandable to more than 60kWh on one Pika Islanding Inverter™
- Faster installation time via Rapid-Rack design; 1-2 installers can install Harbor in under an hour
- Low price per installed kWh
- Automatic configuration for backup, self supply, zero-export and peak-avoidance modes

The Harbor Plus smart battery contains six Panasonic DCB-105 2.65kWh lithium ion battery packs connected in series.

Specification		Units	Note
Total Energy	20.28	kWh	Total energy capacity
Usable Energy	15.90	kWh	Automatically-controlled optimal DoD
Power (Continuous)	6.7	kW	Charge and discharge
Power (Surge)	10.0	kW	-
Battery Modules	6	-	Touch-safe Panasonic DCB-105
DC Voltage (Output)	360 - 420	VDC	380VDC nominal
DC Voltage (Per Module)	46.8	VDC	Nominal DC voltage
DC Current (Internal)	24	A	-
Round-Trip Efficiency	>90	%	PV > battery > load
Operating Temp. Range	0-50, (32-122)	°C, (°F)	Extreme temps may affect performance
Recommended Temp. Range	13-30, (54-86)	°C, (°F)	100% rated performance
Dimensions	68 x 22.5 x 9.5, (1718 x 561 x 241)	in, (mm)	Approx., (H x W x D)
Weight (Enclosure)	115, (52)	lb, (kg)	42lb Cover, 73lb Chassis
Weight (Batteries)	330, (150)	lb, (kg)	55lbs / module
Weight (Total)	445, (202)	lb, (kg)	-
Communication Protocol	REbus DC Nanogrid™	-	Power Line Carrier
Compliance	UL 9540, UL 1741, UL 1973, UL 1642	-	-
Warranty	10	years	-



Coral is the safe and affordable smart battery designed for clean backup power. Built on trusted absorbed glass mat technology, Coral features plug-and-play integration with the Pika Energy Island™ for up to 14kWh of clean backup power.

- Fully-wired cabinet with internal power electronics
- Affordable and safe energy storage solution using reliable, maintenance-free deep-cycle batteries
- Ideal for clean, quiet and affordable backup power
- Touch-safe design
- Rust-proof aluminum enclosure
- Made in the United States
- Powered by the REbus™ DC Nanogrid for seamless integration with the Pika Energy Island

Coral is pre-wired and contains smart power-electronics to support (24) sealed 12V AGM deep cycle batteries\* in series.



Specification	SB14A	Unit
Energy Capacity	14	kWh
Rated Power (continuous)	8000	W
Rated REbus™ Charging Current	±24	A
Power Converter Efficiency (max)	99%	-
DC Bus Voltage (nominal)	±190	VDC
DC Bus Voltage (max)	±210	VDC
Standby Power Consumption (max)	3	W
Sleep Power Consumption	<1	W
Communications	REbus (Power Line Carrier)	-
Remote Monitoring	Via REview™ Internet Dashboard	-
Protection Features	Over/under voltage, overtemp, over-current, battery temp	-
Weight (unloaded, loaded)	± 130, ±1300	lb
Dimensions (H x W x D)	38 x 26 x 31	in
Operating Temp. Range (min/max)	-5 to 40	°C
Pika Equipment Limited Warranty	10	years
<b>Battery Pack Specification</b>		
Compatible Battery Type and Voltage	24 @ Deep cycle AGM, sealed, 12V, Group 22, 50-55Ah*	-
Battery String Voltage (nominal)	288	VDC
Maximum String Current	±30	A

\*Contact Pika Energy for compatible battery options





## REview goes with you. Everywhere.

The REview Dashboard is the clean, clear and simple way to monitor your Pika Energy Island™. Access your system's total energy harvest, device status and performance history at a glance. Dive deeper to monitor all your connected Pika Energy Island devices, export chart images and analyze your energy consumption.

REview's real-time updates and comprehensive, mobile-optimized charts keep you connected to your Pika Energy Island, wherever you go.

### REview Features:

- Energy production reported in real-time
- Visual overlay of battery state-of-charge
- Fast, responsive design template
- Dig deeper: Every connected device reports its own performance
- Compatible with all iOS and Android devices
- Free of charge and included with every Pika Energy Island



*REview is compatible with iOS and Android devices.*

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ENERGY

More power. Smart features. Future ready.