



# POINTGUARD HOME

ENERGY-ON YOUR TERMS



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[www.pointguardenergy.com](http://www.pointguardenergy.com)

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An aerial photograph of a lush green forest. A large, white, stylized logo is cut out of the center of the forest. The logo consists of a vertical bar on the left, a circular shape in the middle, and a horizontal bar on the right, forming a shape reminiscent of the letters 'PG'. The background is a dense canopy of green trees.

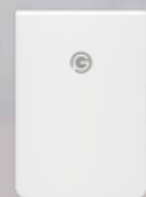
# About PointGuard Energy

**PointGuard Energy** innovates cutting-edge technology solutions in the home energy management sector, with products ranging from energy storage systems to solar inverters and EV chargers. Our focus is to develop highly integrated solutions that allow fast deployment of renewable energy systems, setting the bar for simplicity, speed, performance, safety and system intelligence. We aim to become our customers' most trusted partner on their journey to a more sustainable future.

Our brand name PointGuard refers not only to our business nature of being a dynamic, powerful innovator and driver of the market, but also to the level of intelligence and decision-making we have integrated into our solution, as well as to the level of guarding, or protecting end-users through the inclusion of unrivaled safety mechanisms at the point of energy management, especially the storage system. Together with our partners and customers, we aim to be an unbeatable team.



PointGuard Home



PointGuard LoadHub



myPointGuard App



PointGuard EV AC Charger



PointGuard Communication Module



# PointGuard Home

## A New Era of Battery Safety

Low voltage architecture

5 major safety strategies in battery pack

AI-empowered monitoring and actions

## Ultra-Fast Installation & Commissioning

Stackable design without wiring between modules

2-person installation (including lifting)

5-minute commissioning

## Better Long-Term Performance

Battery pack optimizer:

- Prevents pack-mismatch, increases usable capacity
- Maximizes system up-time
- Enables long-term serviceability

DC-coupled system for higher efficiency and V2X

## A New Dimension of Intelligence

GPT-4o empowered support

AI-assisted energy planning

AI-assisted safety

AI-assisted grid-services (VPP, energy trading)



Battery Pack



EMS



EV Charger



PV Inverter



Battery PCS

# ENERGY - ON YOUR TERMS



## PGHome-A-B

### PointGuard Energy Controller

1 SKU, field configurable to 3.8 / 4.8 / 5.7 / 7.6 / 9.6 / 11.4 kW

### PointGuard V2X Module

12.5 / 25kW

### PointGuard Battery Pack

2 battery pack capacities for 1-5 pack configuration  
5.38 kWh | 8.06 kWh



5.38 kWh Min.

37.62 kWh Max.



PointGuard Energy is leading the new way of producing, storing, dispatching, and consuming electricity in the home. We provide a genuine, all-in-one home energy management system, called PointGuard Home. Its unique 5-in-One modular design integrates the solar inverter, an optional bi-directional EV DC Charger, the Battery PCS, Battery Packs, and the EMS into one fully integrated, intelligent system. With a new era of battery safety, improved long-term performance, ultra-fast installation and commissioning, and a new dimension of intelligence, PointGuard Home provides energy security for your home for the long term.

PGHome Part Number	A Controller Model	B BatteryPack, Configuration	Continuous Backup Power With Solar(kW)	Backup Energy (kWh)	Continuous Backup Power Without Solar(kW)	Surge Power With Solar (kW, 10s)
PGHome-11.4-5.38	PG Controller 11.4	PG BatteryPack 5.0 * 1	11.4	5.38	2.85	17.1
PGHome-11.4-8.06	PG Controller 11.4	PG BatteryPack 8.0 * 1	11.4	8.06	4.35	17.1
PGHome-11.4-10.76	PG Controller 11.4	PG BatteryPack 5.0 * 2	11.4	10.76	5.70	17.1
PGHome-11.4-13.44	PG Controller 11.4	PG BatteryPack 5.0 * 1 + PG BatteryPack 8.0 * 1	11.4	13.44	7.20	17.1
PGHome-11.4-16.12	PG Controller 11.4	PG BatteryPack 8.0 * 2	11.4	16.12	8.70	17.1
PGHome-11.4-16.14	PG Controller 11.4	PG BatteryPack 5.0 * 3	11.4	16.14	8.55	17.1
PGHome-11.4-18.82	PG Controller 11.4	PG BatteryPack 5.0 * 2 + PG BatteryPack 8.0 * 1	11.4	18.82	10.05	17.1
PGHome-11.4-21.5	PG Controller 11.4	PG BatteryPack 5.0 * 1 + PG BatteryPack 8.0 * 2	11.4	21.50	11.40	17.1
PGHome-11.4-21.52	PG Controller 11.4	PG BatteryPack 5.0 * 4	11.4	21.52	11.40	17.1
PGHome-11.4-24.18	PG Controller 11.4	PG BatteryPack 8.0 * 3	11.4	24.18	11.40	17.1
PGHome-11.4-24.2	PG Controller 11.4	PG BatteryPack 5.0 * 3 + PG BatteryPack 8.0 * 1	11.4	24.20	11.40	17.1
PGHome-11.4-26.88	PG Controller 11.4	PG BatteryPack 5.0 * 2 + PG BatteryPack 8.0 * 2	11.4	26.88	11.40	17.1
PGHome-11.4-26.9	PG Controller 11.4	PG BatteryPack 5.0 * 5	11.4	26.90	11.40	17.1
PGHome-11.4-29.56	PG Controller 11.4	PG BatteryPack 5.0 * 1 + PG BatteryPack 8.0 * 3	11.4	29.56	11.40	17.1
PGHome-11.4-29.58	PG Controller 11.4	PG BatteryPack 5.0 * 4 + PG BatteryPack 8.0 * 1	11.4	29.58	11.40	17.1
PGHome-11.4-32.24	PG Controller 11.4	PG BatteryPack 8.0 * 4	11.4	32.24	11.40	17.1
PGHome-11.4-32.26	PG Controller 11.4	PG BatteryPack 5.0 * 3 + PG BatteryPack 8.0 * 2	11.4	32.26	11.40	17.1
PGHome-11.4-34.94	PG Controller 11.4	PG BatteryPack 5.0 * 2 + PG BatteryPack 8.0 * 3	11.4	34.94	11.40	17.1
PGHome-11.4-37.62	PG Controller 11.4	PG BatteryPack 5.0 * 1 + PG BatteryPack 8.0 * 4	11.4	37.62	11.40	17.1

Note: The Controller can be configured to 3.8 / 4.8 / 5.7 / 7.6 / 9.6 / 11.4 kW

# PointGuard Energy Controller

1 SKU, field configurable to  
3.8 / 4.8 / 5.7 / 7.6 / 9.6 / 11.4 kW



- EMS inside for precise control
- Multi-source black start
- On & off-grid compatibility
- 4 MPPTs with 2:1 DC/AC ratio (oversize PV)
- NEMA 4X system enclosure
- NEC rapid shutdown compliant
- Seamless switching experience
- AFCI function integrated



## PointGuard Energy Controller Split Phase

PG Controller								
Field Configuration	3.8	4.8	5.7	7.6	9.6	11.4	Units	
<b>DC Input (from PV)</b>								
Max. PV power	7680	9600	11520	15360	19200	22800	W	
Max. DC input voltage				600				V
Nominal DC input voltage				360				V
Start-up voltage				100				V
MPPT voltage range				50 ~ 550				V
Number of MPP trackers				4				
Number of PV strings per MPPT				1				
Max. input current per MPPT				16				A
Max. short-circuit current per MPPT				20				A
<b>AC Input / Output (on-grid)</b>								
Nominal output power	3840	4800	5760	7680	9600	11400	W	
Max. continuous current	16.0	20.0	24.0	32.0	40.0	47.5	A	
AC switch current rating	20.0	25.0	30.0	40.0	50.0	60.0	A	
Nominal output voltage				240 / 120				V
Grid frequency range				59.3 ~ 60.5				Hz
Power factor				0.8 leading ~ 0.8 lagging				
Total current harmonic distortion				THDi < 2%				
<b>Efficiency</b>								
Max. efficiency				97.61%				
<b>AC Output (backup)</b>								
Backup output power @240V	3840	4800	5760	7680	9600	11400	W	
Backup output power @120V	1920	2400	2880	3840	4800	5700	W	
Peak output power (10 seconds)	8640	8640	8640	17100	17100	17100	W	
Nominal output voltage				240 / 120				V
Output frequency range				59.3 ~ 60.5				Hz
Power factor				0.8 leading ~ 0.8 lagging				
Total voltage harmonic distortion				THDv < 2%				
Disruption time of backup switch <sup>1</sup>				0				ms
<b>Battery Connection</b>								
Supported battery module				PG BatteryPack 5.0 / 8.0				
Battery module voltage range				300 ~ 600			V	
<b>General Data</b>								
Dimensions (W / H / D)				27.6 x 11.8 x 10.2 / 700 x 300 x 260			in / mm	
Weight				77.1 / 35			lbs / kg	
Storage temperature range				-40 ~ 158 / -40 ~ 70			°F / °C	
Operating temperature range				-22 ~ 140 / -30 ~ 60			°F / °C	
Relative humidity range				0% ~ 95%				
Max. operating altitude				13123 / 4000			ft / m	
Cooling				Smart air cooling				
Communication				WLAN / Fast Ethernet (FE) / RS485 / PG CommMod (4G / 3G)				
<b>Standard Compliance</b>								
Certifications				UL 1741, UL 1741 SB, UL 1741 CRD, IEEE 1547-2018, IEEE1547.1-2020, UL 1998, UL 991, UL 1699B, CP 65, FCC Part 15 Class B				

<sup>1</sup>. This refers to the load-side disruption time, to achieve this function PG LoadHub needs to be used together with PG Controller and PG BatteryPack. Test conditions: In the open-circuit state of the power grid, the nominal power of the PG Controller is higher than the total power of the home loads.



# PointGuard Battery Pack

- Large cell capacity, low voltage & durable
- Multi-layer full battery safety protection
- Visible battery status on myPointGuard App
- Self-guiding pin connectors for fast installation
- AI-assisted, optimized battery cycle life
- Parallel connections for flexible battery combinations



## PointGuard Battery Pack 5.0 / 8.0 kWh

PG BatteryPack	5.0	8.0	Units
<b>Performance Specification</b>			
Battery type	LiFePO <sub>4</sub>		
Total energy capacity	5.38	8.06	kWh
Usable energy capacity <sup>1</sup>	5.2	7.8	kWh
Max. charge / discharge power	2850	4350	W
Peak charge / discharge power (10 seconds)	4275	6525	W
<b>General Data</b>			
Weight	125.7 / 57	160.9 / 73	lbs / kg
Dimensions (W / H / D)	30.2 x 10.6 x 10.2 / 767 x 270 x 260		in / mm
Storage temperature range	-13 ~ 140 / -25 ~ 60		°F / °C
Operating temperature range	-4 ~ 131 / -20 ~ 55		°F / °C
Relative humidity range	5% ~ 95%		
Max. operating altitude	13123 / 4000		ft / m
Cooling	Natural convection		
System enclosure type	Type 4X		
Installation method	Floor standing / Wall-mounted		
<b>Standard Compliance</b>			
Certifications	UL 1973, UL 1998, UL 9540, UL9540 A, UN 38.3, CP 65, FCC Part 15 Class B		

<sup>1</sup>. Test conditions: 100% depth of discharge, 0.2C rate charge & discharge averagely at 25°C, at the beginning of life.





# PointGuard V2X Module

- V2X ready technology, future proof
- Max. 25 kW bi-directional charging
- 150 V ~ 1000 V charging, wide EV compatibility
- Charge EV with solar power
- Track charging on myPointGuard App
- NEMA 4X system enclosure

## PointGuard V2X Module 25 kW

Preliminary

PG V2X <sup>1</sup>	25	Units
<b>DC Output</b>		
Max. charging power of charging port	25	kW
Max. discharging power of charging port	25	kW
Output voltage range	150 ~ 1000	V
Max. output current	80	A
Charging connector	CCSI / NACS	
<b>Protection</b>		
Short-circuit protection	Supported	
Over / Under voltage protection	Supported	
Overload protection	Supported	
Over temperature protection	Supported	
Reverse polarity protection	Supported	
Welded contactor check	Supported	
<b>General Data</b>		
Dimensions (W / H / D)	27.56 x 10.63 x 10.24 / 700 x 270 x 260	in / mm
Weight <sup>2</sup>	≤ 89 / ≤ 40	lbs / kg
Storage temperature range	-40 ~ 158 / -40 ~ 70	°F / °C
Operating temperature range	-22 ~ 122 / -30 ~ 50	°F / °C
Relative humidity range	5% ~ 95%	
Max. operating altitude	13123 / 4000	ft / m
Cooling	Smart air cooling	
System enclosure type	NEMA 4X	
Integrated charging cable length <sup>3,4</sup>	16.4 / 5 or 24.6 / 7.5	ft / m
<b>Function</b>		
Authentication	RFID card / APP / No authentication	
Application	Bi-directional charging (V2H / V2G) <sup>5</sup> , Smart load management	
User interfaces	LED indicator, App, RFID	
Remote function	OTA, Remote diagnostics	

1. PG V2X needs to be used together with PG Controller.  
 2. Net weight is less than 40kg, which excludes the charging connector, exteriors and attachments used for wall-mounted installations.  
 3. Integrated charging cable length refers to the length of the cable that extends from the PG V2X, not the length of the exposed cable.  
 4. Without provision of Cable Management System(CMS) with our product, the cable length is less than the max. limit 5m in Canada or 7.5m in US according to their regulations and standards.  
 5. V2X functionality may be limited by EV's capabilities.

# PointGuard LoadHub

- 5 double-pole controllable loads
- 0 ms load-side disruption when switching to backup mode
- Supports generator, heat pump or other controllable load
- Supports both whole-home & partial-home backup
- Uninterrupted power supply through PV+ESS/grid/generator



# PointGuard Hub Plus

- 14 double-pole visible loads
- Up to 48 A continuous current per connection



## PointGuard LoadHub Split Phase

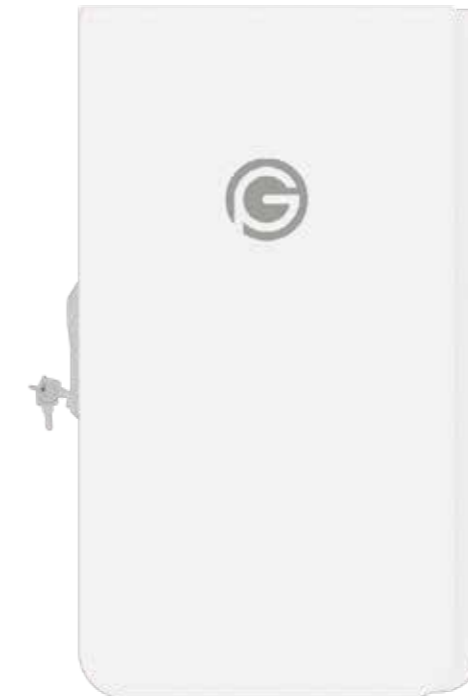
PG LoadHub		Units
<b>Electrical Specification</b>		
Grid connection type	Split phase	
Nominal AC voltage	120 / 240	V
Nominal AC frequency	60	Hz
Max. short circuit current ( I <sub>sc</sub> )	10	kA
Current measurement accuracy	≤ 1 %	
Voltage measurement accuracy	≤ 1 %	
<b>Grid Connection</b>		
Max. continuous current	200	A
Max. overcurrent protection device rating	200	A
Disruption time of backup switchover <sup>1 2</sup>	0	ms
<b>AC Output to Main Distribution Panel</b>		
Max. continuous current	200	A
Max. overcurrent protection device rating	200	A
Overvoltage category	IV	
<b>PG Controller Connection</b>		
Max. number of connection	2	
Max. continuous current	48	A
Max. overcurrent protection device rating	60	A
Max. AC nominal power per inverter connection	11.5	kW
<b>Smart Load Port Connection</b>		
Max. number of connection	5	
Max. continuous current	64	A
Max. overcurrent protection device rating	80	A
<b>Generator Port Connection</b>		
Max. continuous current	64	A
Max. overcurrent protection device rating	80	A
Dry contact switch voltage rating	30	V
Dry contact switch current rating	1	A
Generator 2-wire start	Supported	
<b>General Data</b>		
Dimensions (W / H / D)	20.5 x 29.5 x 7 / 520 x 750 x 177	in / mm
Weight	60 / 27	lbs / kg
Storage temperature range	-40 ~ 158 / -40 ~ 70	°F / °C
Operating temperature range	-22 ~ 131 / -30 ~ 55	°F / °C
Relative humidity range	0% ~ 95%	
Max. operating altitude	13123 / 4000	ft / m
Cooling	Natural convection	
Enclosure type	Type 3R	
Communication	Fast Ethernet (FE), RS485, dry contact	
Installation method	Wall-mounted	
<b>Standard Compliance</b>		
Certifications	FCC Part 15 Subpart B, ICES-003, ANSI C63.4a:2017, UL 67, UL 869A UL 1741, UL 1741 PCS CRD, CSA C22.2 No.107.1-16, CA Proposition 65	

1. This refers to the load-side disruption time, to achieve this function PG LoadHub needs to be used together with PG Controller and PG BatteryPack. Test conditions: In the open-circuit state of the power grid, the nominal power of the PG Controller is higher than the total power of the home loads.

2. The MID Switch complies with UL Category NRNT2 and fulfills with the standards of UL 508, UL 60947-1, UL 60947-4-1, UL 61810-1 as well as UL 61810-20.

## PointGuard Hub Plus Split Phase

PG Hub Plus		Units
<b>Electrical Specification</b>		
Grid connection type	Split phase	
Nominal AC voltage	120 / 240	V
Nominal AC frequency	60	Hz
Max. short circuit current ( I <sub>sc</sub> )	10	kA
Current measurement accuracy	≤ 1 %	
Overvoltage category	IV	
Busbar rating <sup>1</sup>	230	A
Max. number of connection	14	
Max. continuous current per connection	48	A
Max. overcurrent protection device rating	60	A
<b>General Data</b>		
Dimensions (W / H / D)	17.3 x 29.5 x 6.1 / 440 x 750 x 155	in / mm
Weight	44 / 20	lbs / kg
Storage temperature range	-40 ~ 158 / -40 ~ 70	°F / °C
Operating temperature range	-22 ~ 131 / -30 ~ 55	°F / °C
Relative humidity range	0% ~ 95%	
Max. operating altitude	13123 / 4000	ft / m
Cooling	Natural convection	
Enclosure type	Type 3R	
Communication	Fast Ethernet (FE)	
Installation method	Wall-mounted	



1. The Busbar of PG Hub Plus should be connected with the Main Distribution Panel port of PG LoadHub.

# PointGuard Communication Module

- NEMA 4X enclosure type, more reliable
- Plug & play, easy to use
- Supports 3G / 4G communication



## PointGuard Communication Module

PG CommMod		Units
Connection interface	USB	
Installation type	Plug-and-play	
Display	LED indicators	
Dimensions (W / H / D)	2.05 × 4.41 × 1.30 / 52 × 112 × 33	in / mm
Weight	0.2 / 90	lbs / g
Enclosure type	IP66	
Power consumption (typical)	< 4	W
Supported standards	4G : LTE-FDD (B2 / B4 / B5 / B12 / B13 / B14 / B66 / B71) 3G : WCDMA (B2 / B4 / B5)	
Storage temperature range	-40 ~ 158 / -40 ~ 70	°F / °C
Operating temperature range	-22 ~ 140 / -30 ~ 60	°F / °C
Relative humidity range	0% ~ 95%	
Max. operating altitude	13123 / 4000	ft / m
Controller compatibility	PointGuard Energy Controller series	





# PointGuard EV AC Charger

- Green power charging with PointGuard Home
- Data tracking & scheduled charging on myPointGuard App
- Dynamic load management to prevent overload, user-friendly charging\*
- Easy installation with less steps and top/bottom entry option
- NEMA 4X & IK10 provide high degree of protection
- Compatible with NEMA plug-in installation
- Wall-mounted installation provides high flexibility

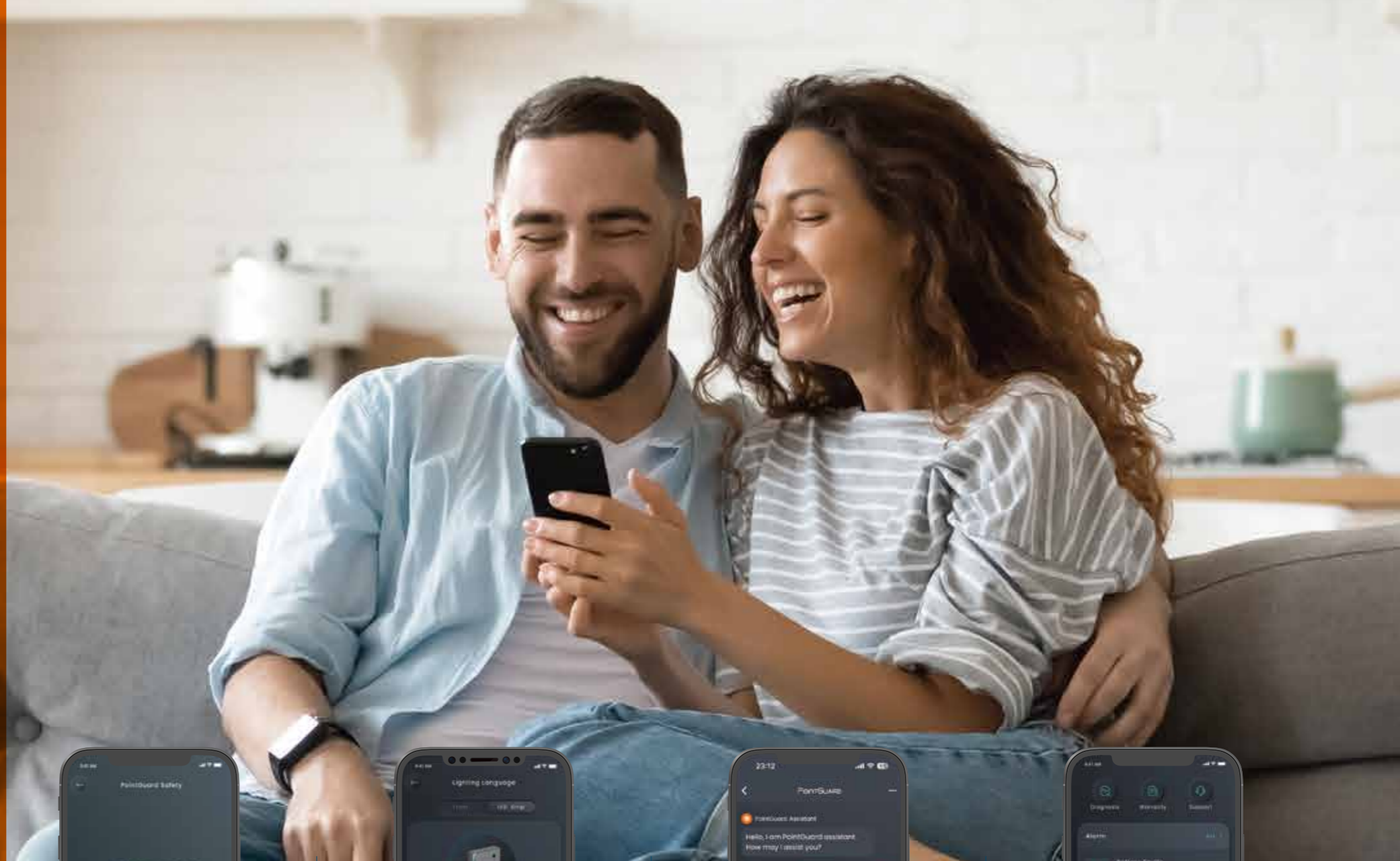
\* Only works with PointGuard home solution or additional PG Sensor

## PointGuard EV AC Charger 9.6 / 11.5 kW Split Phase

PG EVAC	9.6	11.5	Units
<b>AC Input &amp; Output</b>			
Nominal charging power	9.6	11.5	kW
Nominal output voltage	208 ~ 240		V
Output current range	6 ~ 40	6 ~ 48	A
Nominal AC frequency	60		Hz
Charging connector	SAE J1772 / NACS SAE J3400		
AC input connection	NEMA 6-50 / NEMA 14-50	Hard-wired	
<b>Protection</b>			
Integrated RCD protection	CCID 20		
Flamemability of enclosure	UL 94-5VB		
Mechanical enclosure protection	IK 10		
Automatic recovery	Supported		
Over / Under voltage protection	Supported		
Overload protection	Supported		
Over temperature protection	Supported		
Ground fault protection	Supported		
Surge protection	Supported		
Grounding system	TT, TN		
<b>User Interface &amp; Communication</b>			
Protocol	RS-485, Modbus RTU		
Communication	WLAN / Ethernet		
Authentication	App / Auto-charge (no authentication)		
Display	LED indicator / App		
Charging mode	Standard charging / Scheduled charging		
Metering	External meter with RS485		
Dynamic load management	Supported		
<b>General Data</b>			
Dimensions (W / H / D)	9.21 x 15.12 x 5.35 / 234 x 384 x 136		in / mm
Weight	17.2 / 7.8	16.3 / 7.4	lbs / kg
Storage temperature range	-40 ~ 158 / -40 ~ 70		°F / °C
Operating temperature range	-22 ~ 122 / -30 ~ 50		°F / °C
Relative humidity range	5% ~ 95%		
Max. operating altitude	13123 / 4000		ft / m
Cooling	Natural convection		
Enclosure type	NEMA 4X		
Installation method	Wall-mounted		
Application environment	Outdoor / Indoor		
Standby self-consumption	< 3.6		W
Integrated charging cable length	25 / 7.5		ft / m

# myPointGuard App

Intelligent home energy management on your terms.



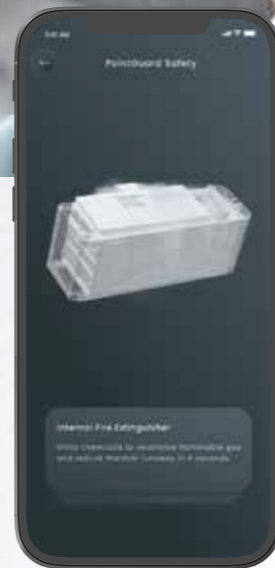
## Real-time monitoring

Energy data refresh every 10 seconds  
Visible energy flow & related devices  
Auto. system network display on App



## AI mode

Auto access to weather, system, and dynamic tariff data for customized smart electricity solutions



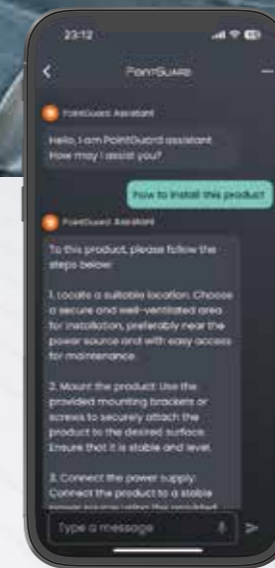
## PointGuard Safety

Discover industry-leading battery safety features



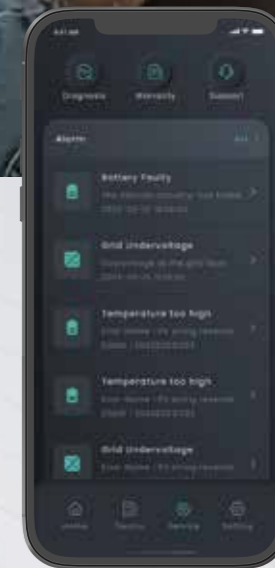
## Fun ambient lighting

Customizable lighting language  
Add personality to your system



## PointGuard AI

Your device management assistant  
Your home energy analyst  
Your after-sales assistant

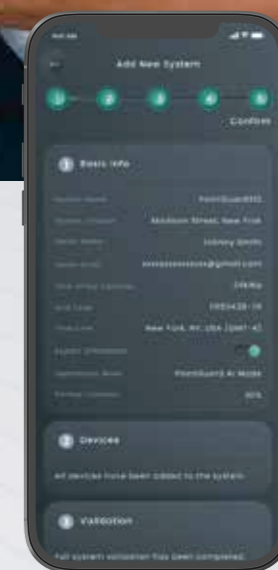
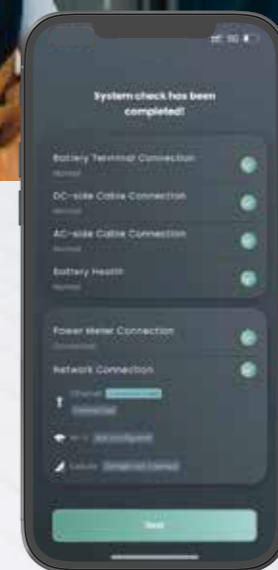
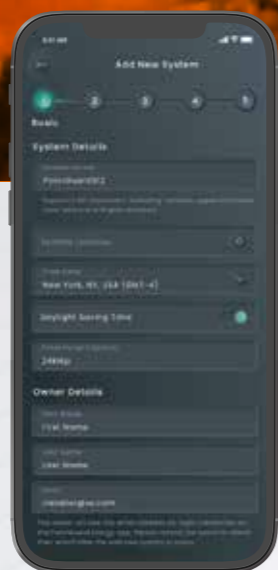


## Interactive services

AI-integrated service interface  
Self-diagnosis to identify problems  
Submit service requests via the App

# myPointGuard App

Ultra-Fast Installation & Commissioning  
with the myPointGuard App



Step 1

Scan QR Code to add a new system

Step 2

Fill out details

Step 3

Fast software upgrade

Step 4

Confirm preset parameters

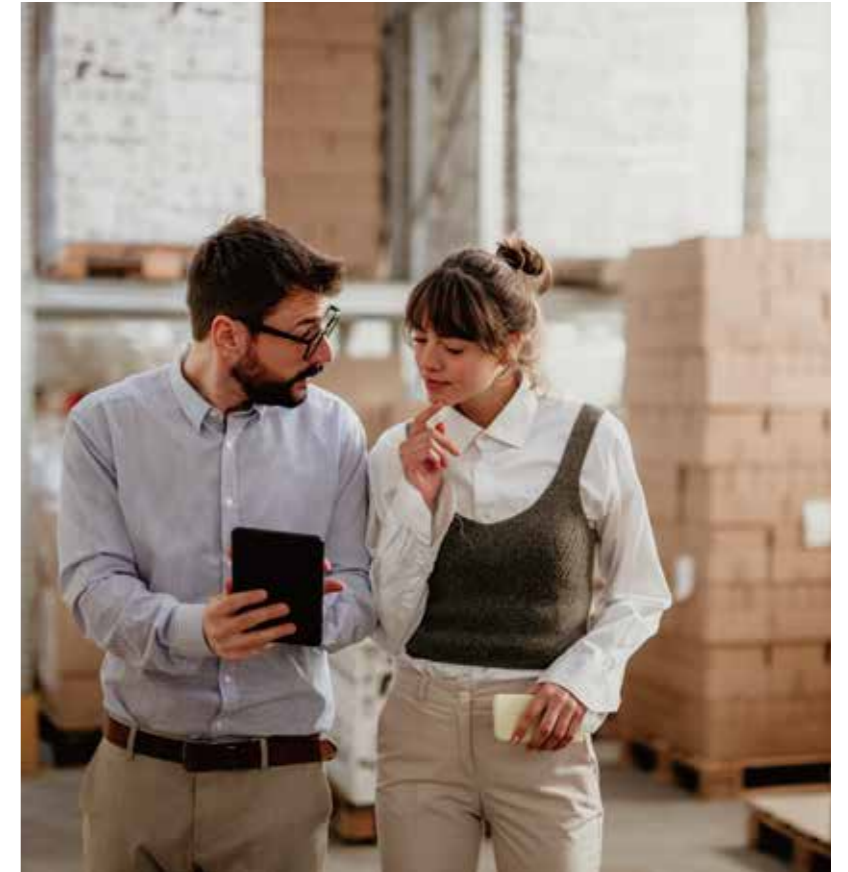
Step 5

One-click full system check

Step 6

Confirm

# Leading the Way in Intelligent Manufacturing



**6 GWh**

Battery production capacity

**12 GW**

Controller production capacity

Our 215,000 sqft manufacturing facility is equipped with state-of-the-art technology and innovative manufacturing processes that allow us to produce high-quality products with exceptional efficiency and reliability. It also features the latest manufacturing execution system (MES) which streamlines our operations and enables real-time monitoring of the entire production process.

# Runs on Solar for a Sustainable Tomorrow

By installing a 362 kW rooftop PV system, we have significantly reduced our reliance on fossil fuels and effectively decreased our carbon footprint during the manufacturing process. Our solar-powered production also provides higher efficiency and cost savings for our business. We are proud to make a positive impact on the environment and are committed to continue doing our part to help build a better world for future generations.

## PV System Size

📏 32,000 sqft    ⚡ 362 kW<sub>p</sub>    ⏻ 240 kW<sub>ac</sub>    📄 432 kWh

## Estimated Annual Generation

📄 398,200 kWh

## Community Contribution per Year

☁️ 309t CO<sub>2</sub> emission reduced

🌳 269 equivalent of trees planted

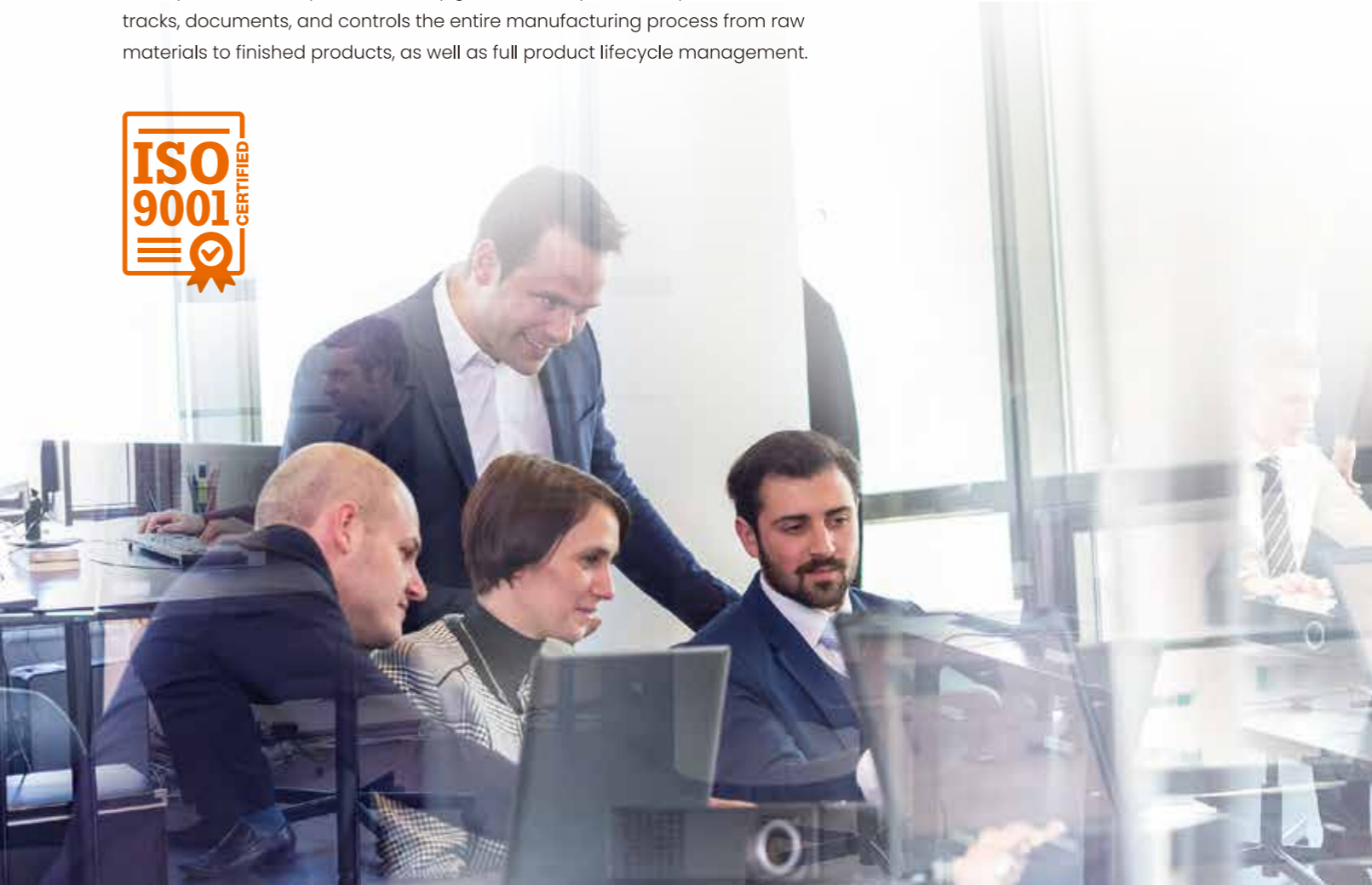
# Where Quality Meets Perfection

At PointGuard Energy, our unwavering commitment to putting the customer first is at the core of everything we do. We firmly believe that delivering top-quality products is paramount to ensuring customer satisfaction and building long-term relationships. With a relentless pursuit of excellence, we constantly strive to develop innovative products that meet and exceed customer expectations. Our strict implementation of rigorous quality control guarantees that every product leaving our factories is of the highest standard. Moreover, we never settle for complacency; Instead, we embrace a culture of continuous improvement to constantly enhance our products and surpass industry standards.



## Manufacturing Execution System (MES)

Quality and efficiency is consistently guaranteed by our MES system, which monitors, tracks, documents, and controls the entire manufacturing process from raw materials to finished products, as well as full product lifecycle management.



# Powering Homes with POINTGUARD HOME

PG Home operates perfectly in a wide range of scenarios. Whether installed indoors or outdoors, wall-mounted or floor standing, the highly integrated design makes PG Home to have smaller footprint. PG Home is modular and easily stackable, starting from 5 kWh and up to 37 kWh per stack. It can finely match different capacity requirements, flexibly adapting to various homes' requirements. The modular design with quick connectors enables easy installation just like building blocks. Whether to cut electricity bills or whole-home backup during power outages, 5-in-One PG Home is here to meet your demands.

