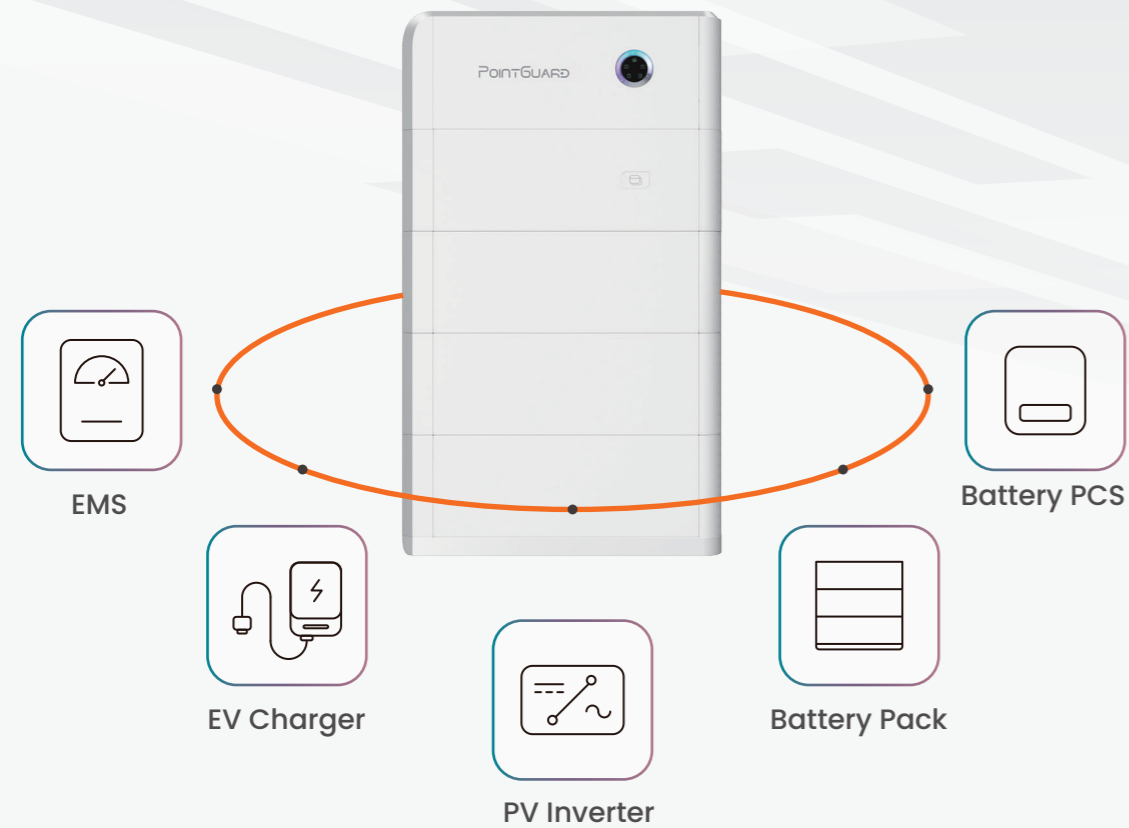


5-in-One Fully Integrated Design



PointGuard Home

ENERGY – ON YOUR TERMS

- A New Era of Battery Safety
- Ultra-Fast Installation & Commissioning
- Better Long-Term Performance
- A New Dimension of Intelligence



▶ 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 / 25 kW

▶ PointGuard Battery Pack

5.0 / 8.0 kWh

Flexible capacity combinations



PointGuard Energy Controller	x 1	x 1	x 1	x 1	x 1	x 1
PointGuard Battery Pack 5.0 kWh	x 1	-	x 2	-	x 2	x 1
PointGuard Battery Pack 8.0 kWh	-	x 1	-	x 2	x 1	x 4
Total energy capacity	5.38 kWh	8.06 kWh	10.76 kWh	16.12 kWh	18.82 kWh	37.62 kWh
Usable energy capacity	5.2 kWh	7.8 kWh	10.4 kWh	15.6 kWh	18.2 kWh	36.4 kWh

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.

PointGuard Energy Controller Split Phase

PG Controller								
Field Configuration	3.8	4.8	5.7	7.6	9.6	11.4	Units	
DC Input (from PV)								
Max. PV power	7680	9600	11520	15360	19200	22800	W	
Max. DC input voltage				600				V
Nominal DC input voltage				350				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
AC Input / Output (on-grid)								
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%				
Efficiency								
Max. efficiency				97.5%				
AC Output (backup)								
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	14400	14400	14400	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 ¹				0				ms
Battery Connection								
Supported battery module				PG BatteryPack 5.0 / 8.0				
Battery module voltage range				300 ~ 600				V
General Data								
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				
Standard Compliance								
Standard				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				

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.

PointGuard Battery Pack 5.0 / 8.0 kWh

PG BatteryPack	5.0	8.0	Units
Performance Specification			
Battery type	LiFePO ₄		
Total energy capacity	5.38	8.06	kWh
Usable energy capacity ¹	5.2	7.8	kWh
Max. charge / discharge power	2850	4350	W
Peak charge / discharge power (10 seconds)	4275	6525	W
General Data			
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	NEMA 4X		
Installation method	Floor standing / Wall-mounted		
Standard Compliance			
Standard	UL 1973, UL 1998, UL 9540, UL9540 A, UN 38.3, CP 65, FCC Part 15 Class B		

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



	1	1	2	2	3	5	pcs
Number of battery packs	1	1	2	2	3	5	pcs
Total energy capacity	5.38	8.06	10.76	16.12	18.82	37.62	kWh
Max. charge / discharge power	2850	4350	5700	8700	10050	20250 / 11400	W
Peak charge / discharge power (10 seconds)	4275	6525	8550	13050	15075/14400	30375 / 14400	W
Total weight	220.5 / 100	253.5 / 115	348.3 / 158	414.5 / 188	509.3 / 231	864.2 / 392	lbs / kg
Total height (with base)	25.2 / 640	25.2 / 640	35.8 / 910	35.8 / 910	46.5 / 1180	67.7 / 1720	in / mm
Total width (with decorative covers)				33.5 / 850			in / mm
Total depth (with decorative covers)				10.2 / 260			in / mm

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