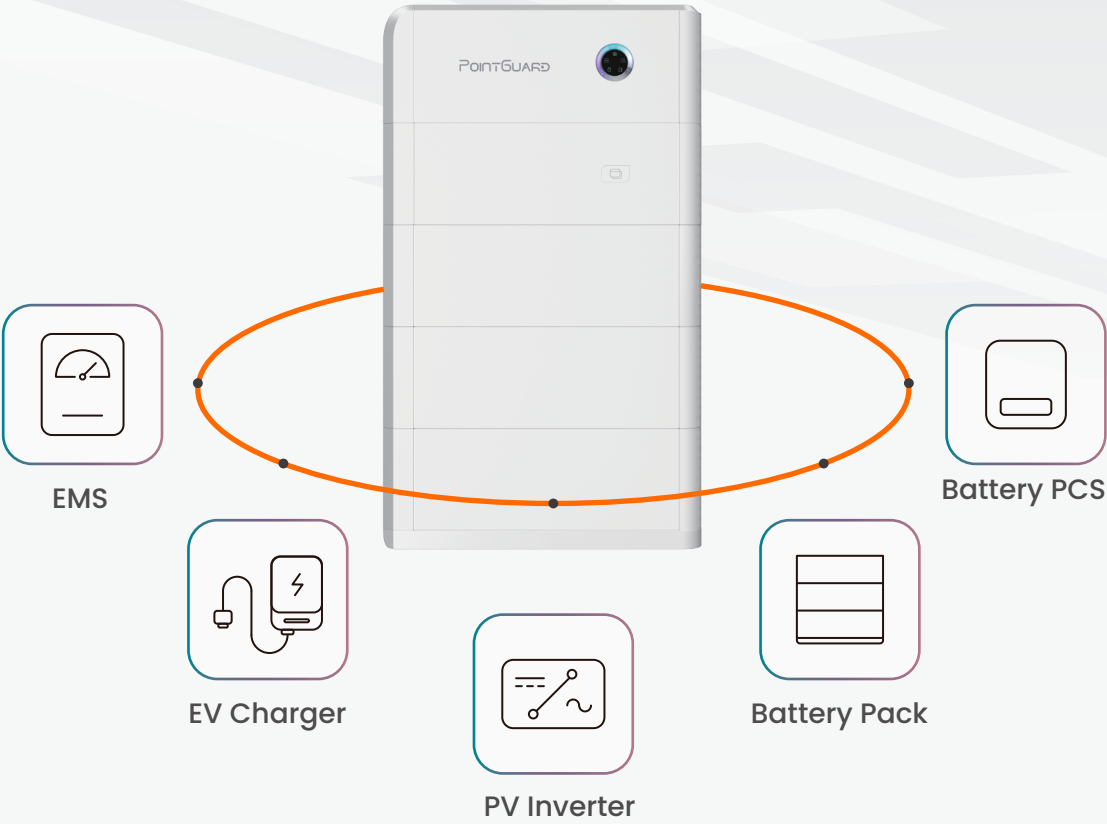


5-in-One Fully Integrated Design



# PointGuard Home

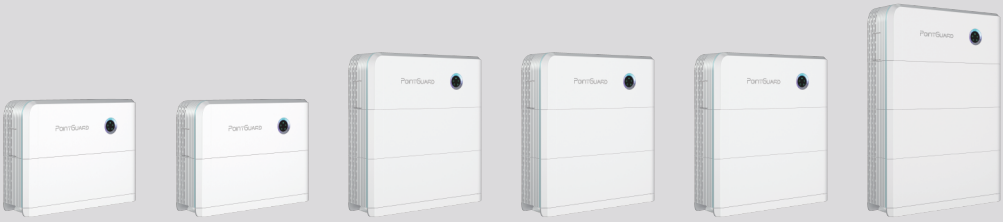
## ENERGY – ON YOUR TERMS

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



- ▶ **PointGuard Energy Controller**  
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 1	-	x 2
PointGuard Battery Pack 8.0 kWh	-	x 1	-	x 1	x 2	x 1
Usable energy capacity	5.2 kWh	7.8 kWh	10.4 kWh	13.0 kWh	15.6 kWh	18.2 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 3.8–11.4 kW Split Phase

Preliminary

PG Controller	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	2	2	3	3	4	4	
Number of PV strings per MPPT			1				
Max. input current per MPPT			16				A
Max. short-circuit current per MPPT			20				A
AC 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%				
GFDI Threshold			1				A
Efficiency							
Max. efficiency			98.0%				
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%				
Switch time to backup mode <sup>1</sup>			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			66.1 / 30				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				
System enclosure type			NEMA 4X				

1. Need to be used together with PG Load Hub and PG BatteryPack. 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

Preliminary

PG BatteryPack	5.0	8.0	Units
Performance Specification			
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
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		

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



Number of battery packs	1	1	2	2	2	3	pcs
Total energy capacity	5.38	8.06	10.76	13.44	16.12	18.82	kWh
Max. charge / discharge power	2850	4350	5700	7200	8700	10050	W
Peak charge / discharge power (10 seconds)	4275	6525	8550	10800	13050	15075	W
Total weight	205 / 93	240.3 / 109	332.9 / 151	368.2 / 167	403.4 / 183	478.4 / 217	lbs / kg
Total height (with base)	25.2 / 640	25.2 / 640	35.8 / 910	35.8 / 910	35.8 / 910	46.5 / 1180	in / mm
Total width (with decorative covers)			33.5 / 850				in / mm
Total depth (with decorative covers)			10.2 / 260				in / mm

Disclaimer: The information on this file is provided on an “as is” basis. To the fullest extent permitted by law, PointGuard Energy Inc. excludes all representations and warranties relating to this file and its contents or which is or may be provided by any affiliates or any other third party, including in relation to any inaccuracies or omissions in this file.