



Pure Independence for Your Home

Take control of your home energy usage and self-power your space day or night with the LG Electronics Home 8 Energy Storage System, a more reliable, cleaner, energy storage system that can help you work towards independence from the power grid.



Your Home. Your Energy. Your Way.

Whether you prefer to couple your Home 8 with AC power or with solar panels from any manufacturer, this energy storage solution can provide more reliable, cleaner energy; serving as either your main power source, as a backup that can help offset expensive peak shifts through Time-of-Use smart scheduling, or as an emergency power option that can phase out diesel generators, providing a more environmentally conscious option. Take control of your electric bill with Home 8.

Intelligent Offerings for Smarter Consumption

When you choose Home 8 you not only get a more efficient energy storage system, you also get quick and easy installation by a certified installer, along with access to the ThinQ® app, an integrated smart energy management system that can scale to your appliances, HVAC, and beyond.



Home 8 Energy Storage System Features



Smart Technology for a Smart Home

With a modern design and clean aesthetic, the integrated battery can not only store energy, but interconnect with all your LG Electronics appliances.



Secure & Sustainable

The Home 8 phases out emergency backup diesel generators with cleaner solar-fed energy, while protecting against weather-based outage events by providing back-up ready, automatic power options.



Energy Efficient

Connect up to four Home 8 systems to store and provide up to 57.6 kWh of usable energy, allowing you to use that energy day or night to power your home.



Built for Ease

As a homeowner, the system is built to be easily controlled and navigated through our ThinQ® app, and for installers, the provided interface allows ease of set up and testing without the need for additional equipment.

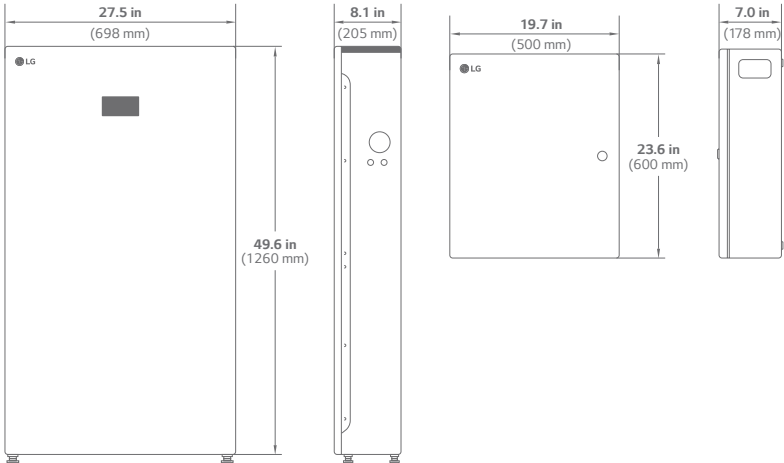
Home 8 Product Dimensions



Home 8 (PCS+Battery)



Smart Energy Box



Specification

Home 8 Energy Storage System

Home 8 - General Specifications

Nominal Voltage (L-N/L-L)	120/240 V Split Phase
Grid Frequency (Nominal)	60 Hz
Rated AC Power (Discharging)	7.5 kVA ¹
Rated AC Power (Charging)	5.4 kVA ¹
Total Capacity	15.8 kWh
Usable Capacity	14.4 kWh ²
Round Trip Efficiency	> 90% ^{3,4}
CEC Efficiency (PCS only)	98%
Overvoltage Category	Category IV
Interface	LED Display

Home 8 - Grid Connection Mode

Nominal Voltage (L-N/L-L)	120/240 V Split Phase
Grid Frequency (Nominal)	60 Hz
Rated AC Power (Discharging)	7.5 kVA ¹
Rated AC Power (Charging)	5.4 kVA ¹
Rated AC Current (Discharging)	31.25 A
Rated AC Current (Charging)	22.5 A
Power Factor	- 0.8 ~ + 0.8

Home 8 - Backup Mode

Nominal AC Voltage	120/240 V Split Phase
Nominal AC Frequency	60 Hz
Max AC Power (Discharging)	9.0 kVA (10s)
Rated AC Power (Discharging)	7.5 kVA ¹
Rated AC Power (Charging)	5.4 kVA ¹
Max AC Current (Discharging)	37.5 A (10s)
Rated AC Current (Discharging)	31.25 A
Rated AC Current (Charging)	22.5 A

Home 8 - Battery

Battery Package Types	Cylindrical Li-ion
Total Capacity	15.8 kWh
Usable Capacity	14.4 kWh ²
Nominal DC Voltage	406.56 V

Home 8 - Battery Module

Battery Package Types	Cylindrical Li-ion
Module Nominal DC Voltage	101.64 V
Module Capacity	36.9 Ah
Module Size[W*H*D]	600 x 212 x 190 [mm] (23.6 x 8.4 x 7.5 [in])
Module Weight (Max)	26 kg / 57 lb

Compliance

	Home 8	SE Box
Grid Code	IEEE1547, 1547.1, UL1741, UL1741SA, CA Rule21	CA Rule21, IEEE2030.5-2018/Sunspec CSIP
Safety	UL1741, C22.2 No.107.1-16, UL1642, UL1973, UL9540A	UL1741, C22.2 No.107.1-16
Functional Safety	IEC60730-1 Annex H	-
System Safety		UL9540
Enclosure		NEMA Type 3R ⁵
EMC		FCC Part15 Subpart B
Seismic		IEEE 693-2005, High

Environmental Specifications

	Home 8	SE Box
Dimensions [W*H*D]	698 X 1260 X 205 [mm] (27.5 X 49.6 X 8.1 [in])	500 X 600 X 178 [mm] (19.7 X 23.6 X 7.0 [in])
Weight	163 kg / 359 lb	25 kg / 55 lb
Cooling	Fan (Forced Air Cooling)	Natural Convection
Operating Temperature	-20 ~ 50 °C (-4 ~ 122 °F) @ Discharging -10 ~ 45 °C (14 ~ 113 °F) @ Charging	-20 ~ 50 °C (-4 ~ 122 °F)
Recommended Operating Temperature	0 ~ 35 °C (32 ~ 95 °F) @ Discharging 0 ~ 33 °C (32 ~ 91.4 °F) @ Charging	-20 ~ 50 °C (-4 ~ 122 °F)
Storage Temperature	-20 ~ 50 °C (-4 ~ 122 °F)	
Ambient Humidity (RH)		5 ~ 95% (non-condensing)
Altitude		< 3000 m (9843 ft)
Mounting Type	Floor Stand with Wall Mount	Wall Mount
Noise		< 47 dB
Warranty		10 years (Battery: 70% @ 10 years) ⁶

SE Box - General Specifications

Nominal Voltage (L-N/L-L)	120/240 V Split Phase
Grid Frequency (Nominal)	60 Hz
Max AC Current Rating	200 A
Max Continuous AC Current Rating	160 A
Input Short Circuit Current Rating	10 kAIC ⁷
Over Current Protection Device	100 ~ 200 A, Service Entrance Rated ^{7,8}
AC Meter Accuracy	+/- 2%
Operating Mode	PV Self-Consumption, Time-of-Use (ToU), Backup Only
Backup Operation	Automatic Disconnect for Seamless Backup
Backup Transfer Time	< 100 ms
Modularity	Up to 4 Home 8 units
Overvoltage Category	Category IV

SE Box - Interface

User Interface	7-inch Touch LCD, LG ThinQ® App (User), EnerVu Web (Installer)
Internet Connection	Ethernet 10/100, WLAN (802.11 b/g/n)
External Device	MODBUS

SE Box - Wire Gauges

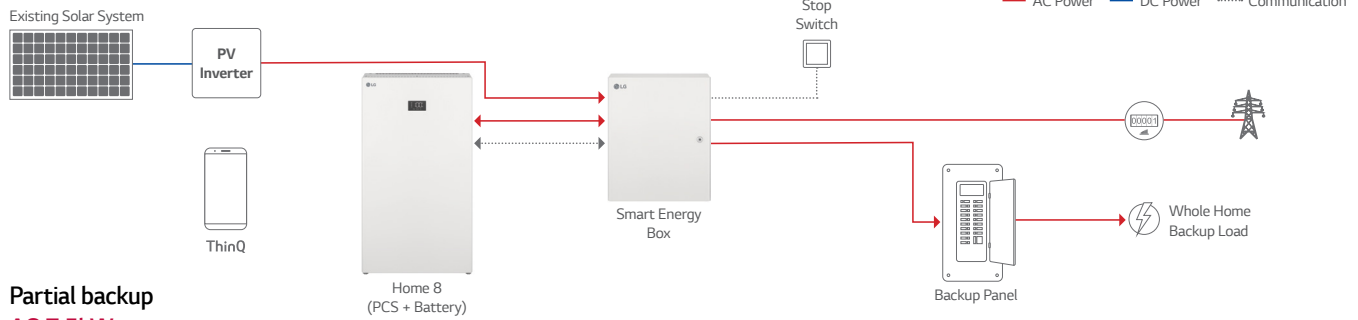
Grid lug (L1,L2)	Cu/Al : 6 AWG ~ 300 KCMIL
CSR/BW Breaker (L1,L2)	Cu/Al : 6 AWG ~ 300 KCMIL
Backup/Non-backup load lugs (L1,L2)	Cu/Al : 6 AWG ~ 250 KCMIL
Neutral (Large)	Cu/Al : 6 AWG ~ 250 KCMIL
Neutral (Medium) and Ground	Cu/Al : 14 AWG ~ 2/0 AWG

¹ Adjustable, limited by the battery pack output capability such as charging/discharging power derating by the atmosphere temperature.
² Usable energy might be reduced for enhancing the battery lifetime and system stability.
³ Verified according to LG Electronics conditions.
⁴ AC to battery to AC with 4.32 kW charging and 2.88 kW discharging power at 25 °C (77 °F) under the beginning of life.
⁵ Tested by NEMA 250
⁶ 10-years Limited Warranty: Standard limited warranty period is five years parts/energy capacity for qualified products. Upon expiration of original manufacturer's limited warranty, an extended limited warranty may apply (ten years parts/energy capacity) for qualified products registered with LG's ThinQ® service and connected to internet. Full limited warranty terms are available at lgusa.com/ess
⁷ When protected by Class J fuses, LG, SE Box, is suitable for use in circuits capable of delivering not more than 22 kA symmetrical amperes.
⁸ LG SE Box is not suitable for use as service equipment in Canada.

System Configuration

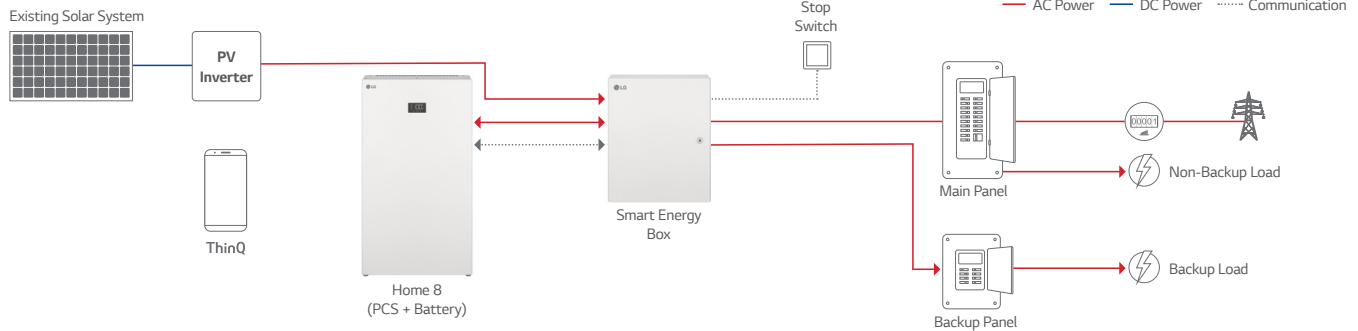
Whole home backup

AC 7.5kW



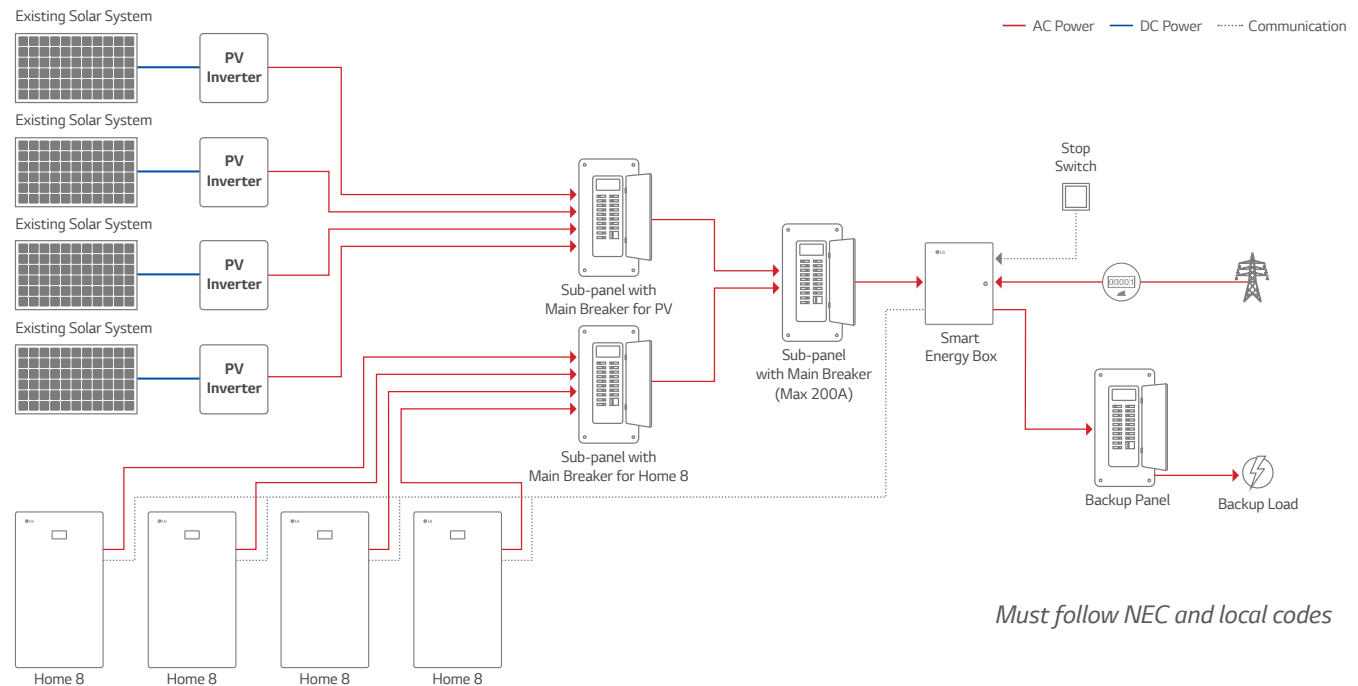
Partial backup

AC 7.5kW



Connect Four Units with Large-Scaled PV Inverter

Home 8 can connect four AC units for up to 57.6 kWh of total storage.



LG ESS

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Due to our commitment to continued innovations, some specs may be changed without modification. Ratings are subject to change without notice. Current pertinent ratings are available at www.lgusa.com/ess 122022

To learn more about Home 8 please visit lgusa.com/ess