



# Enjoy life, uninterrupted

Take control of your home energy usage with the LG Electronics Home Series Energy Storage System (ESS)—a cleaner, more reliable energy storage system that delivers power when you need it, and peace of mind when you don't.

# Your home. Your power. Your way.

Whether paired with a solar PV system or AC-coupled to the grid, the LG Electronics Home Series ESS can store and provide up to 14.4 kWh of usable backup power for your home. Power outage? Rolling blackout? Energy price hike? Trust LG Electronics Home Series ESS to keep your home powered up, while keeping your monthly utility costs low.

# Manage your home, from your phone

When you choose LG Electronics Home Series ESS, you'll gain access to the LG ThinQ® mobile app—a complete home energy management system that connects your LG appliances and systems. Track energy usage, set your preferences, and optimize your home for max savings with LG ThinQ®.



## **LG Home Series ESS features**



## Load shifting to offset costs

Store energy during off-peak hours to gain power peace of mind and maximize utility cost savings.



## Renewable energy integration

Harness energy generated from solar for cleaner backup power when the sun isn't shining.



## More reliable backup power

Connect a maximum of four units for up to 57.6 kWh of total power to keep your home running smoothly.

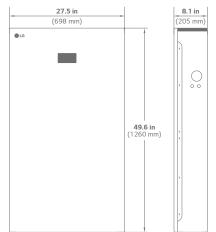


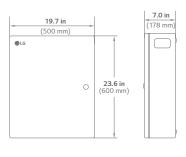
## Home appliance efficiency

Access a stable power supply that allows you to manage energy fluctuations and ensure consistent power to your LG systems and appliances.

# **Product Dimensions**







# **LG Electronics Home Series ESS specifications**

### Home 5/8 - General Specifications

Model	Home 5	Home 8	
Nominal Voltage (L-N/L-L)	120/240 V Split Phase		
Grid Frequency (Nominal)	60 Hz		
Rated AC Power (Discharging)	5.0 kVA <sup>1</sup>	7.5 kVA	
Rated AC Power (Charging)	5.0 kVA <sup>1</sup>	5.4 kVA	
Total Capacity	15.8 kWh		
Usable Capacity	14.4 kWh <sup>2</sup>		
Round Trip Efficiency	> 90% <sup>3, 4</sup>		
CEC Efficiency (PCS only)	98%		
Overvoltage Category	Category IV		
Interface	LED Display		

#### Home 5/8 - Grid Connection Mode

Model	Home 5	Home 8	
Nominal Voltage (L-N/L-L)	120/240 V Split Phase		
Grid Frequency (Nominal)	60 Hz		
Rated AC Power (Discharging)	5.0 kVA <sup>1</sup>	7.5 kVA <sup>1</sup>	
Rated AC Power (Charging)	5.0 kVA <sup>1</sup>	5.4 kVA <sup>1</sup>	
Rated AC Current (Discharging)	20.84 A	31.25 A	
Rated AC Current (Charging)	20.84 A	22.5 A	
Power Factor	- 0.8 ~ + 0.8		

#### Home 5/8 Stacking - Single SE Box

Units	1	2	3	4
Battery Capacity (kWh)	14.4	28.8	43.2	57.6
Home 5 Rated AC Power (kVA)	5	10	15	20
Home 8 Max AC Power (kVA)	7.5	15	22.5	30
Max AC Power (kVA) 10 Sec	9	18	27	36

#### Home 5/8 - Backup Mode

Model	Home 5	Home 8	
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)	Total 5.0 kVA¹ 2.5 kVA@120 V (L1-N,L2-N)	Total 7.5 kVA <sup>1</sup> 3.75 kVA@120 V (L1-N,L2-N)	
Rated AC Power (Charging)	Total 5.0 kVA <sup>1</sup> 2.5 kVA@120 V (L1-N,L2-N)	Total 5.4 kVA <sup>1</sup> 2.7 kVA@120 V (L1-N,L2-N)	
Max AC Current (Discharging)	37.5 A (10s)		
Rated AC Current (Discharging)	20.84 A per line (L1-N,L2-N)	31.25 A per line (L1-N,L2-N)	
Rated AC Current (Charging)	20.84 A per line (L1-N,L2-N)	22.5 A per line (L1-N,L2-N)	

### Home 5/8 - Battery

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

## Home 5/8 - Battery Module

Battery Package Types	Cylindrical Li-ion	
Module Nominal DC Voltage	101.64 V	
Module Capacity (Min)*	36.9Ah	
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	

<sup>\*</sup>Battery Capacity (Nominal) = 38.9Ah

### Compliance

LGE ESS Home 8	Home 5/8	SE Box	
Grid Code	IEEE1547, 1547.1, UL1741, UL1741SA, UL1741SB, CA Rule21	CA Rule21, IEEE2030.5-2018/ Sunspec CSIP	
Safety	UL1741, C22.2 No.107.1-16, UL1642, UL1973, UL9540A, UL1741 CRD PCS	UL1741, C22.2 No.107.1-16	
Functional Safety	IEC60730-1 Annex H	-	
System Safety	UL9540		
Enclosure	NEMA Type 3R⁵		
EMC	FCC Part15 Subpart B		
Seismic	IEEE 693-2005, High		

#### **Environmental Specifications**

	Home 5/8	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	-20 ~ 50 °C	
	-10 ~ 45 °C (14 ~ 113 °F) @ Charging	(-4 ~ 122°F)	
Recommended	0 ~ 35°C (32 ~ 95°F) @ Discharging	-20 ~ 50 °C	
Operating Temperature	0 ~ 33°C (32 ~ 91.4°F) @ Charging	(-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 Support, and Wall Mount	Wall Mount	
Noise	< 47 dB		
Warranty	10 years (Battery: 70% @ 10 years) <sup>6</sup>		

#### SE Box - General Specifications

120/240 V Split Phase		
60 Hz		
200 A		
160 A		
10 kAIC <sup>7</sup>		
100 ~ 200 A, Service Entrance Rated <sup>7, 8</sup>		
+/- 2%		
PV Self-Consumption, Time-of-Use (ToU), Backup Only, Al <sup>9</sup>		
Automatic Disconnect for Seamless Backup		
< 100 ms		
Up to 4 Home5/8 units		
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

Adjustable, limited by the battery pack output capability such as charging/discharging power derating by the atmosphere temperature.

<sup>&</sup>lt;sup>8</sup> LG SE Box is not suitable for use as service equipment in Canada.
<sup>9</sup> Al (Artificial Intelligence) mode operates based on the tarriff setting in ToU.





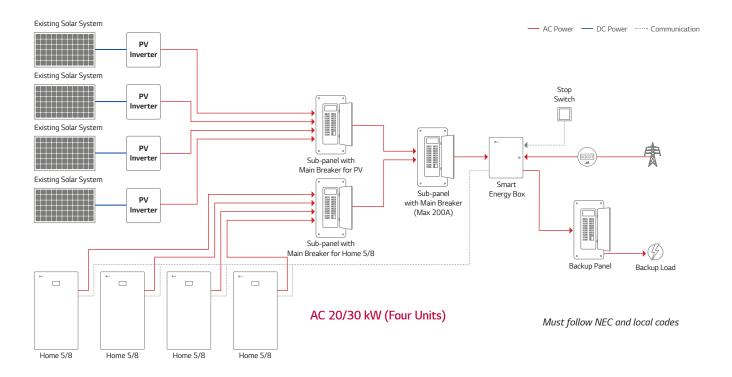
<sup>2</sup> Usable energy might be reduced for enhancing the battery lifetime and system stability.
3 Verified according to LG Electronics conditions.
4 AC to battery to AC with 4.32 kW charging and 2.88 kW discharging power at 25°C (77°F) under the beginning of life.
5 Tested by NEMA 250

<sup>10-</sup>years.LimitedWarranty:Standard limitedwarranty period is five years parts/energy capacity for qualified products. Upon expiration of original manufacturer's limited warranty, an extended limited warranty may apply (teny ears parts/energy capacity) for qualified products registered with LG's ThinQ® service and connected to internet. Full limited warranty terms are available at glusa.com/ess 7 When protected by Class J Ruses, LG,SEBox, is suitable for use in circuits capable of delivering not more than 22 K4 symmetrical amperes.

# System configuration

#### Whole Home Backup — AC Power — DC Power ...... Communication Existing Solar System Switch AC 5/7.5 kW Inverter Whole Home Smart Energy Backup Load Box Home 5/8 Partial Backup Backup Panel (PCS + Battery) AC Power — DC Power …… Communication Stop Switch Existing Solar System AC 5/7.5 kW Inverte ( Non-Backup Load Main Panel Smart Energy ThinQ Backup Load 963 863 636 863 636 863 Home 5/8 (PCS + Battery) Backup Panel

# Connect up to four (4) units with large-scaled PV inverter





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