

# LG ELECTRONICS HOME SYSTEM



## The Energy Storage System (ESS) from a Reliable Brand

The LG Electronics ESS is a state-of-the-art home energy system designed for homeowners ready to take control of their home energy usage with LG ThinQ.

It offers reliable power both day and night from a highly efficient system. LG Electronics ESS applies a modular battery design that allows for easy installation and capacity expansion, allowing customers to propose the desired battery capacity.



### LG ESS Home 4.6

RA460K07A00 (4.6kW | 7.12kWh)  
RA460K11A00 (4.6kW | 10.68kWh)

### LG ESS Home 6

RA600K07A00 (6kW | 7.12kWh)  
RA600K11A00 (6kW | 10.68kWh)

### PCS (Inverter)

RA460K00A10 (Home 4.6)  
RA600K00A10 (Home 6)

### Battery

RA000K07A00 (7.12kW)  
RA000K11A00 (10.68kW)

## Highly Efficient Energy Storage System



### One brand, one warranty

LG is manufacturer of both the battery and PCS. One-Stop-Service for both products. Higher value with higher energy throughput



### Quick and easy installation

With the modular design, the transportation and installation become easy.  
26kg per battery module only



### Backup Light at black out

In case of grid outage 3000W of backup energy is provided based on battery and PV availability



### LG air-to-water heat pump and EV-charger connectivity

Easy plug & play installation and commissioning for LG Therma V heat pumps and EV Charger qualified for LG ESS. With LG IO Module 3rd party compatibility i.e. SG-Ready



### Battery Expansion for more savings

An additional battery module can be easily installed from 2 to 3 modules up to 10.7kWh within 200 cycle

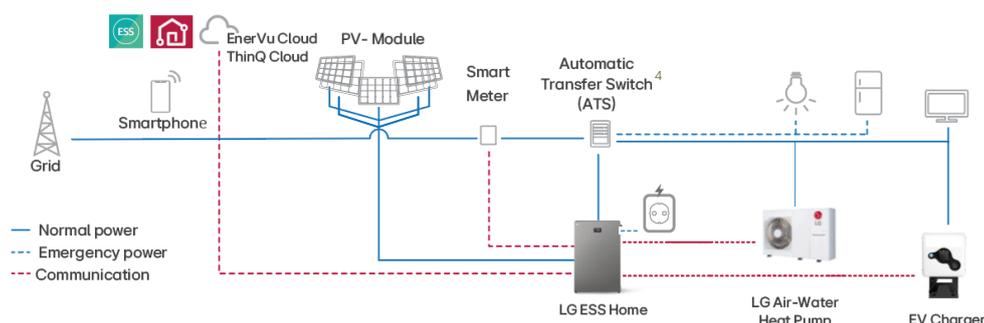


### Smart Management using EnerVu and ThinQ

User-friendly app enables to easily check electricity generation, self-consumption and other valuable information

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## System Layout



For safe ESS system operation, it is recommended to register EnerVu Cloud (<https://enervu.lg-ess.com>) and stay connected

## PCS Specifications

### DC Input

Model (4.6 kW   6 kW)	RD460KCBA01	RD600KCBA01
Input Voltage Range	150 ~ 600V <sub>DC</sub>	
Max. DC Power (Per string)	6.9kW (3.68kW)	9kW (4.5kW)
Usable MPP Voltage Range	150 ~ 510V	
Number of MPPT	2	
Number of String per MPPT	1	
Max. Short Current per MPPT	18 A	
Rated Current per MPPT	13 A	

### AC Output

Rated Grid Voltage	230V	
AC Voltage Range	207 - 253 V	
Frequency	50Hz	
Rated Output Power	4.6kW	6.0kW
Rated Output Current	20A	26A
THD / Power Factor	< 5% / ±0.8	

### General Data

Operation Temperature	Discharging -20 °C ~ 50 °C Charging -10 °C ~ 45 °C
Recommended Operating temperature	Discharging 0 °C ~ 40°C charging 0 °C ~ 35°C
Topology	Transformerless
Typical Noise Emission	<47dB

### Compatibility Product List (Optional)

Energy Meter	ABB (B21-112-100, B21-212-100, B21-312-100) Eastron (SDM230-MODBUS)
Air to Water Heat Pump	LG Electronics (Therma V Monobloc, Spilt-Hydro Box)
SG-Ready	LG IO Module PEXPMB100, PEXPMB300

### Certifications

PCS	IEC/EN 62109-1/-2, EN 55011, EN IEC 61000, RED(2014/53/EU)
Battery	IEC/EN 62619, IEC60730-1 Annex H, IEC 63056

## Battery Specifications

### DC Input / Output

Model Name	BPEL007HBG2	BPEL011HBG2
Number of Battery Modules	2 Modules	3 Modules
Battery Type	Lithium Ion	
Total Capacity	7.91kW h	11.87kW h
Usable Capacity <sup>1)</sup>	7.12kW h	10.68kW h
Max. Charge Power (Home 4.6 / Home 6.0) <sup>2)</sup>	2.5kW / 2.5kW	4kW / 4kW
Max. Discharge Power(ATS <sup>4)</sup> (Home 4.6 / Home 6.0) <sup>2)</sup>	3.68kW/ 3.68kW	4.6kW / 5.6kW
Max. Discharge Power(Light Back up)	3kW	3kW
Battery Module Expansion <sup>3)</sup>	Yes	No

1) Value for battery cell only (depth of discharge 90%) capacity may be limited to protect system. The capacity may decrease as the battery ages.

2) Charging and discharging may take longer depending on ambient temperature and SoC.

3) Expansion of the battery module is only possible within 200 cycles after the initial installation.

4) ATS product is optional component

### General Data

Dimension (W/D/H, mm)	698 / 205 /1,260
Weight (2 Battery Modules   3 Battery Modules)	110kg / 135kg (26kgper battery module + 58kg)
Cooling Type	Forced Convection
Degree of Protection	IP56
Warranty	10 years