

# Limited Warranty for Prime Home Battery of LG Energy Solution

This limited warranty (hereinafter 'Warranty') specified below applies to LG Energy Solution Lithium-ion battery and the Accessory Component (hereinafter 'Products') manufactured by LG Energy Solution, Ltd. (hereinafter 'LG Energy Solution'), purchased by End-users (hereinafter 'Buyer') through an authorized sales channel (hereinafter 'Reseller') and installed by an installer who holds a certificate issued from LG Energy Solution for Prime Products ('Certified Installer').

This following 'Warranty' is provided for the 'Products' below.

| Product Model | Model Code   |  |
|---------------|--------------|--|
| 10H Prime     | EH153064P8S1 |  |
| 10H FIIme     | EH153064P8S8 |  |
| 16H Prime     | EH257064P8S1 |  |
|               | EH257064P8S8 |  |

#### 1. Purpose

The primary purpose of this 'Warranty' is to clearly define the matters related to the warranty policy of the 'Products'.

# 2. Obligations

2.1 'Buyer' shall use and maintain the 'Products' in accordance with documentation including the Attachment 1 (Battery Technical Specifications) provided by LG Energy Solution.

2.2 'Buyer' shall comply with all precautions specified in documentation provided by LG Energy Solution.

2.3 The 'Products' shall be charged only through compatible inverter connected to PV or Grid. In order to maintain minimum charging state, the 'Products' must be connected to the Grid. When the 'Products' are installed where Grid is not connected, the 'Warranty' will be voided.

2.4 The 'Products' require using an approved, compatible inverter. When the 'Products' are installed with a non-approved inverter, this 'Warranty' provided by LG Energy Solution will be voided.

For a list of compatible inverters, 'Reseller' or 'Buyer' can visit the official Battery Website of LG Energy Solution by the URL below and check the 'Home Battery' > 'Product Info' menu.

https://www.lgessbattery.com/us (North America)

2.5 Any person performing installation and maintenance of the 'Products' must have the appropriate electrical qualifications and licenses for battery installations required by the country, and the state in addition to being a 'Certified Installer'.

#### **3. Product Warranty**



LG Energy Solution will replace or repair any defect in the 'Products' subject to the terms of this 'Warranty' including the exclusions set out in Articles 7, 8 and 9 ('**Product Warranty**'). The Product Warranty shall begin either (i) on the date of the installation or (ii) thirty-six (36) months from the date of manufacture, whichever occurs first, and such 'Warranty' shall be valid for a period of ten (10) years.

# 4. Performance Warranty

4.1 LG Energy Solution guarantees energy retention (70%) at the earlier of (i) the end of 'Warranty' period (10 years) or (ii) when the aggregate energy throughput is met as setout below, including the exclusions set out in Articles 7, 8 and 9, provided that the battery systems are operated under the conditions set forth in Attachment 1 ('Battery Technical Specifications')

The Performance Warranty shall begin to take effect either (i) on the date of installation or (ii) thirty-six (36) months from the date of manufacture, whichever occurs first.

| Application   | Warranty Period                               | Aggregate Energy Throughput          |  |
|---|---|--------------------------------------|--|
| Residential storage for solar self-consumption or back-up | 10 years from warranty term commencement date | 16H Prime: 54MWh<br>10H Prime: 32MWh |  |

4.2 The value of aggregate energy throughput and energy retention (70%) shall be measured on the following conditions by LG Energy Solution:

Capacity measurement condition:

- Ambient temperature :  $25 \sim 30^{\circ}$ C (77-86°F)
- Initial battery temperature from BMS :  $25 \sim 30^{\circ}$  (77-86°F)
- Charging/discharging method :
  - Charge: 0.3CP/CV, Cut-off current 0.05C at:
    - RESU10H Prime: 174.3V(BPI\*) RESU16H Prime: 290.5V(BPI\*)
  - Discharge: 0.3CP, Cut off voltage at:
    - RESU10H Prime: 126V(BPI\*) RESU16H Prime: 210V(BPI\*) or cut-off min. cell voltage 3V
  - Current and voltage measurements taken at battery side (BPI\*)
    - \* BPI : Battery Power Interface

4.3 In the event of the 'Warranty' exclusion described in Article 7,8 and 9, the Performance Warranty shall be expired.

# 5. Warranty Claim

5.1 The 'Buyer' shall notify or contact, within 1 month, their 'Reseller' or LG Energy Solution if the purchased or installed 'Products' are found to be defective, damaged and/or when the quality-related



problems occur by using the Contact point in Article 10.

5.2 If the 'Buyer' intends to raise a claim due to the quality defect of the 'Products' pursuant to Articles 3 or 4, the 'Buyer' shall provide LG Energy Solution with the following information.

(1) Dated proof of purchase from authorized LG sales channel

For authorized LG sales channel information, 'Reseller' or 'Buyer' can visit the Battery Website of LG Energy Solution by the URL below and check the 'Home Battery' > 'Where to Buy'.

https://www.lgessbattery.com/us (North America)

- (2) Description of defects, symptoms and when it occurred
- (3) Product(s) serial number (The 'Products' have each serial numbers.)
  - a) Battery Module #1
  - b) Battery Module #2
  - c) BCU (Battery Control Unit)
- (4) Further information requested by LG Energy Solution to determine the defect and its cause (for example, error code, description of defect and other information)
- (5) The name, company name and company address of the 'Certified Installer' and/or the 'Reseller'

5.3 LG Energy Solution shall identify the defect notified by the 'Buyer', and repair or replace if the defect would be covered by the Product Warranty set out in Article 3 or the Performance Warranty set out in Article 4 in accordance with the terms of this Warranty.

#### 6. Replace or Repair

6.1 When a claim is submitted under the Product Warranty or Performance Warranty to LG Energy Solution, LG Energy Solution shall decide whether to (i) repair, or (ii) replace the defective 'Products' with refurbished parts equal in value.

6.2 The 'Warranty' period for the repaired or replaced part/Product shall be the remainder of the warranty period for the original part/product.

6.3 Subject to the requirements of any applicable law, no obligation for LG Energy Solution to indemnify or compensate the 'Buyers' for any damages which shall arise out of Product Warranty or Performance Warranty unless otherwise explicitly specified herein.

6.4 The 'Warranty' for defective Products is only valid when the defective Products have been repaired or replaced by personnel appointed by LG Energy Solution.

In the event the 'Products' are no longer commercially available, LG Energy Solution, at its option, may complete the replacement with alternative equipment deemed to be equivalent in function and



performance, or refund the remaining depreciated value of the purchase price of the 'Products' during the 'Warranty' period as set out in the Compensation Scheme below. The purchase price of the Product is defined by the price paid, in local currency, by the 'Reseller' or 'Certified Installer'. The purchase price mentioned hereinabove is defined by the price paid by the 'Reseller' or 'Certified Installer' for the purchase.

# - Compensation Scheme (For Performance Warranty) -

- Residual value in [Local Currency] = purchasing price in [Local Currency] / 120 x (120 Operation time after installation in month)
- No warranty of performance will be provided from the 121st month

# 7. Exclusion for Failure to Connect to the Internet or Failure to Register the Product

In order to provide the 'Warranty' for the full 'Warranty' period as set out in Article 3 and Article 4, LG Energy Solution requires the ability to perform the remote firmware updates. From time to time during the 'Warranty' period without notice to you, LG Energy Solution can provide important firmware updates when the 'Products' are connected to the Internet and these remote updates may interrupt the operation of the 'Products' for a short period.

When the 'Products' are not connected to the Internet or not registered in the RESU Monitor website (<u>http://resumonitor.lgensol.com</u>), and LG Energy Solution cannot provide important updates for the 'Products', LG Energy Solution may not be able to honour the full 'Warranty'. However, LG Energy Solution will provide the 'Warranty' for at least five years notwithstanding lack of registration and/or internet connection. Please also note that the registration process will request you for accepting of collecting personal information.

# 8. General Exclusions

This 'Warranty' does not apply to any defects or performance failures of the Products comprising or resulting from any of the following:

- When the 'Products' are not installed as specified in the installation manual provided by LG Energy Solution.
- When the 'Products' are installed by a person lacking the appropriate electrical qualification and license/certificate for the battery installation required by applicable law, including country and state jurisdictions.
- When the 'Products' are not purchased through authorized sales channel designated by LG Energy Solution.
- When the 'Products' are not installed and/or serviced by the 'Certified Installer' of LG Energy Solution.
- When the 'Products' are not manufactured by LG Energy Solution.
- When the 'Products' are transported, stored, installed, assembled, tightened, or wired out of compliance of the official Installation Manual and datasheet of the 'Products'.
- When the 'Products' are disassembled or dismantled without prior consent of LG Energy Solution.
- When the 'Products' are damaged by physical or electrical stresses such as, inclusive but not exclusive of, inrush current, lightning, flood, tidal wave, fire, or incidental damage.
- When the defect or performance failure occurs and the scope of the defect or performance failure expands due to improper repair of the 'Products' carried out by technicians who



are not approved by LG Energy Solution and/or instructed by the 'Buyer' without the consent of LG Energy Solution.

- When the defect or performance failure occurs in the 'Products' due to the wilful misconduct or negligence of the 'Buyer' or 'Reseller'.
- When the defect or performance failure occurs due to the misuse, faulty use, or negligent use of the 'Products'.
- When the 'Products' are used for the purposes other than the Application under Article 4 and Attachment 1.
- When a claim is raised for the 'Products' after the 'Warranty' period specified in Article 3 and Article 4 has expired.
- When the scope of the defect or performance failure has expanded because LG Energy Solution or the 'Reseller' were not notified of the defect or failure in the period specified in Article 5.
- When the defect and/or any expanded scope of the defect are caused by force majeure events, such as war, riot, civil war, natural disasters, etc., that are not wholly or predominantly attributable to the acts or omissions of LG Energy Solution.
- When the 'Products' are externally damaged but its performance and function are not affected.
- When the 'Products' are damaged during the transportation from the 'Reseller' to the 'Buyer'.
- When the 'Buyer' or 'Reseller' violates applicable law, including laws or regulations of the state, country or local government while using the 'Products'.
- When a claim for the 'Products' is not raised as prescribed in Article 5.
- Other defects and performance failure not attributable to LG Energy Solution and up to the extent general exclusions are permitted under the applicable laws.

# 9. Special Exclusions

# 9.1 Exclusion of Warranties

The 'Warranty' will not apply if the 'Buyer' violates any of the following provisions:

- The 'Products' shall not be used in facilities with radiation control, nuclear reactors, and facilities related to nuclear safety or nuclear power uses, as well as facilities that may have direct contact with patients.
- The 'Products' shall not be used to power medical devices or life-support equipment.
- The 'Products' shall not be used or installed in a location where vibrations may occur. For example, aircraft, ship (vessel, boat, yacht), car or train are not allowed.
- The 'Products' shall be only used for residential stationary storage applications.

# 9.2 Exclusion of Incidental or Consequential Damages

• To the maximum extent permitted by applicable law, in no event will 'LG Energy Solution' or any of its representatives be liable to 'Buyer' for any incidental or consequential damages arising out of breach of the warranty whether or not the 'Buyer' has been advised of the possibility of such damages.



#### 9.3 Disclaimer of Implied Warranties

• The warranty set forth herein is in lieu of, and 'Reseller' expressly disclaims all other product warranties of any kind whatsoever whether express, implied, statutory, arising by course of dealing or performance, custom, usage in the trade or otherwise, any warranty of merchantability, or fitness for a particular purpose, and in any event no such implied warranty has applicability beyond the time period covered by this warranty.

#### 10. Contact

If the 'Buyer' has any questions or wants to file a claim, the first step is to contact the 'Reseller'. And the 'Reseller' shall contact LG Energy Solution using the following contact information.

| UNITED STATES,<br>CANADA,<br>PUERTO RICO | TELEPHONE | +1-888-375-8044         |  |
|--|-----------|-------------------------|--|
|  | E-Mail    | LGESS_CS@lgensol-vt.com |  |
|  | Web       | https://gcp.lgensol.com |  |
|  | APP       | For Android For iOS     |  |
| HQ (KOR)                                 | E-Mail    | essservice@lgensol.com  |  |

#### 11. Applicable law

The 'Warranty' is governed by the law of the country or state or jurisdiction in which the 'Buyer' resides. This 'Warranty' only applies to the 'Buyer' who has purchased the 'Products' for his or her own use.

#### **12.** Applicable Countries

This 'Warranty' is applicable only in the countries listed as below. LG Energy Solution is not responsible for any claims against this 'Warranty' made in and/or based on the event occurred in any countries other than listed herein.

• United States, Canada, Puerto Rico



This 'Warranty' gives you specific legal rights, and you may also have other rights which vary from State to State. Some States do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Some States do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.



| Items                          |   |               |                   |  | 10H Prime<br>(EH153064P8S1                             | 16H Prime<br>(EH257064P8S1                   |
|--------------------------------|---|---------------|-------------------|--|--|--|
| ~                              |   |               |                   |  | EH153064P8S8)  | EH257064P8S8)                                |
|                                | Voltage                                 | Voltage Range |                   | Charge   | 420 ~ 450V   |  |
|                                |   |               |                   | Discharge  | $350 \sim 410 \mathrm{V}$                              |  |
|                                | Usable Energy <sup>1)</sup>             |               |                   | 0.   | 9.6kWh   | 16.0kWh                                      |
|                                | Max. Power <sup>2)</sup> / Max. Current |               |                   | ax. Current  | 5kW / 14.3A  | 7 kW / 20A                                   |
|                                | Peak Power (for 10sec)                  |               |                   | or 10sec)  | 7kW <sub>p</sub>                                       | 11kW <sub>p</sub>                            |
| rical                          |   |               | Charging Power    |  | Following Power limit under 0.3 CP @ 25±2°C (77±3.6°F) |  |
| Electrical                     | Stand<br>Charg                          |               | Cut off Condition |  | Charge Power limit = 0 or SoC 100%                     |  |
|                                | /Dischar<br>Condit                      | rging         |                   |  | Following Power limit under 0.3 CP @ 25±2°C (77±3.6°F) |  |
|                                | Condi                                   | uon           | Cut off Condition |  | Discharge Power limit = 0 or SoC 0%                    |  |
|                                | Round-trip Efficiency                   |               | ficiency          | >90.3% (under specific condition)  |  |  |
|                                | Communication Interface                 |               | Interface         | CAN 2.0B (500kbps), RS485  |  |  |
|                                | I                                       | nstallati     | ion M             | lethod   | Standing / Wall Mount Fixture                          | Standing                                     |
|                                |   | Install       | lation            | Site   | Indoor <sup>3)</sup> / Outdoor                         |  |
|                                | Operating                               |               |                   | Discharge  | -20 ~ 50°C (-4 ~ 122°F)                                | $20.50^{\circ}C(4.122^{\circ}E)$             |
| tal                            | Temperat                                | ure Ran       | nge               | Charge   | -10 ~ 50°C (14 ~ 122°F)                                | $-20 \sim 50^{\circ}C(-4 \sim 122^{\circ}F)$ |
| nen                            | Optimal Range                           |               |                   | 2  | 15 ~ 30°C (59 ~ 86°F)                                  |  |
| Environmental                  |   |               | •                 | 1) - $30^{\circ}$ C ~ $60^{\circ}$ C (- $22 \sim 140^{\circ}$ F) (acceptable for 7 days in total)<br>2) - $20^{\circ}$ C ~ $45^{\circ}$ C (- $4 \sim 113^{\circ}$ F) (acceptable for the first 6 months)<br>3) - $20^{\circ}$ C ~ $30^{\circ}$ C (- $4 \sim 86^{\circ}$ F) (acceptable for 7th ~ 36th month) |  |  |
|                                | Operating/Storage Humidity Range        |               |                   | $5 \sim 95\%$ , RH (Non Condensing)  |  |  |
|                                | Altitude                                |               |                   | Max. 2,000m (6562ft)   |  |  |
|                                | Cooling Strategy                        |               |                   |  | Natural convection                                     |  |
| Reliability &<br>Certification | Cell                                    |               |                   |  | UL1642   |  |
|                                | Safety                                  | Batte         | Battery Pack      |  | CE/ FCC / RCM / IEC 62619/ UL1973/ IEC62477            |  |
|                                | Hazardous Materials Classification      |               | Classification    | Class 9  |  |  |
| Reli:<br>Cert                  | Transportation                          |               |                   |  | UN38.3 (UNDOT)   |  |
|                                | Ingress                                 |               |                   |  | IP55   |  |

<sup>1)</sup> DOD 100%. DC/DC converter one way efficiency 97.5%. Ambient 77°F (25°C)

<sup>2)</sup> The power of 'Products' may be limited to below Max. Power when the 'Products' are outside of recommended operating temperature (15°C - 30°C) specified in the official Installation Manual provided.

<sup>3)</sup> The 'Products' shall not be installed in an airtight enclosure or in an area without adequate air flow to support natural air convection cooling methods. The 'Product' shall not be installed in sleeping areas or near flammable materials.