

A. Manufacturer's declaration for complete systems to the KfW promotional product Renewable Energies "Storage"

Hereby, the company, **LG Chem, Ltd., Korea**, that
 PV inverters of the type*
 the battery inverter of the type*
 the system control of the type*
 the battery management of the type*
 the battery storage of the type* **RESU3.3/ Resu6.5/ RESU10/ RESU13**

meets the requirements listed below for **the installation of
 a built-up of components from different manufacturers overall system**

Note:

Since the PV storage system is composed of components, the manufacturer's declarations are also submitted for the respective components of the overall system.

The product-side funding requirements of the "Announcement - Promotion of stationary and decentralized battery storage systems for use in conjunction with photovoltaic systems from 17 February 2016" of the BMWi and the subsidy program Renewable Energies "Storage" (program number 275) of the kfW based on it are only completely fulfilled if For the components that make up the overall system, the necessary manufacturer's declarations are available and therefore the entire system covers all requirements (eligibility requirements 1 to 6).

Eligibility criteria		Appendix*
1	With the PV storage system, the maximum output of the photovoltaic system at the grid connection point can be reduced to 50 percent of the installed capacity of the photovoltaic system.	A1 / deleted
2	The inverter (s) of the PV battery storage system has an appropriate electronic and open remote parameterization interface that allows re-adjustment of the active and reactive power characteristics depending on the network parameters of voltage and frequency as required, and a suitable one and exposed interface for remote control.	A2 / deleted
3	The valid application rules (VDE-AR-N 4105 with the additions and notes of the VDE FNN regarding storage) existing at the time of placing on the market, grid connection guidelines and standards for the grid connection of PV systems with battery storage systems are complied with.	A3 / deleted
4	The electronic interfaces of the battery management system and the protocols used are disclosed for compatibility with replacement batteries of the same or different manufacturers.	A4 / deleted
5	The batteries of the battery storage system have a time value replacement	A5 /

Appendix A6 Safety Concept for the Battery System

Manufacturer's declaration on the safety concept for the operation of the battery inverter together with a battery or a battery system

The safety concept covers the following areas and takes into account possible hazards of the PV storage system or its components before, after and during operation for the purpose of safety of man, environment and property.

- A - Storage, transport, handling
- B - installation site
- C - installation (mechanical and electrical)
- D - Commissioning
- E - Operation and Maintenance
- F - Repair
- G - Disposal

If available, use existing standards. Non-standards covered areas are specified as follows / are described in the attached document RESU7H / RESU10H Security Concept / are available to the customer and installer at any time (Partners Web Site, can be varied)

Seoul, Korea, 02/10/2018
LG Chem, Ltd



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Appendix A5 Battery Time Warranty

Manufacturer's declaration for the time value guarantee for the battery over 10 years

The PV storage system with the batteries listed in the following table is guaranteed for 10 years. The exact warranty conditions are supplied with the devices and can be viewed at www.lgesspartner.com/de

Battery Name		
RESU3.3		
RESU6.5		
RESU10		
RESU13		

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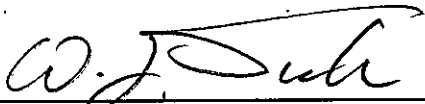
	guarantee for a period of 10 years. In this case, if the batteries are defective, the time value of the batteries is replaced. The fair value is calculated on the basis of a linear depreciation over a period of 10 years.	<i>not deleted</i>
6	The safe operation of the battery storage system and the battery is ensured by compliance with generally accepted rules of technology (such as standards). Safety requirements that are not covered by standards are described in the prior art by manufacturers specifications. These follow from the manufacturer's safety concept in the appendix.	A6/ <i>not deleted</i>

* Delete as appropriate

The individual components meet at least the following requirements; Depending on the PV storage system, not all components listed here must be used:

Component / requirement no.	1	2	3	4	5	6
PV inverter	x	x	x			
Battery inverter		x	x	x		x
Control Panel	x					x
Battery management				x		x
Battery storage					x	x

Seoul, Korea, 02/10/2018 (adjust to actual date)
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