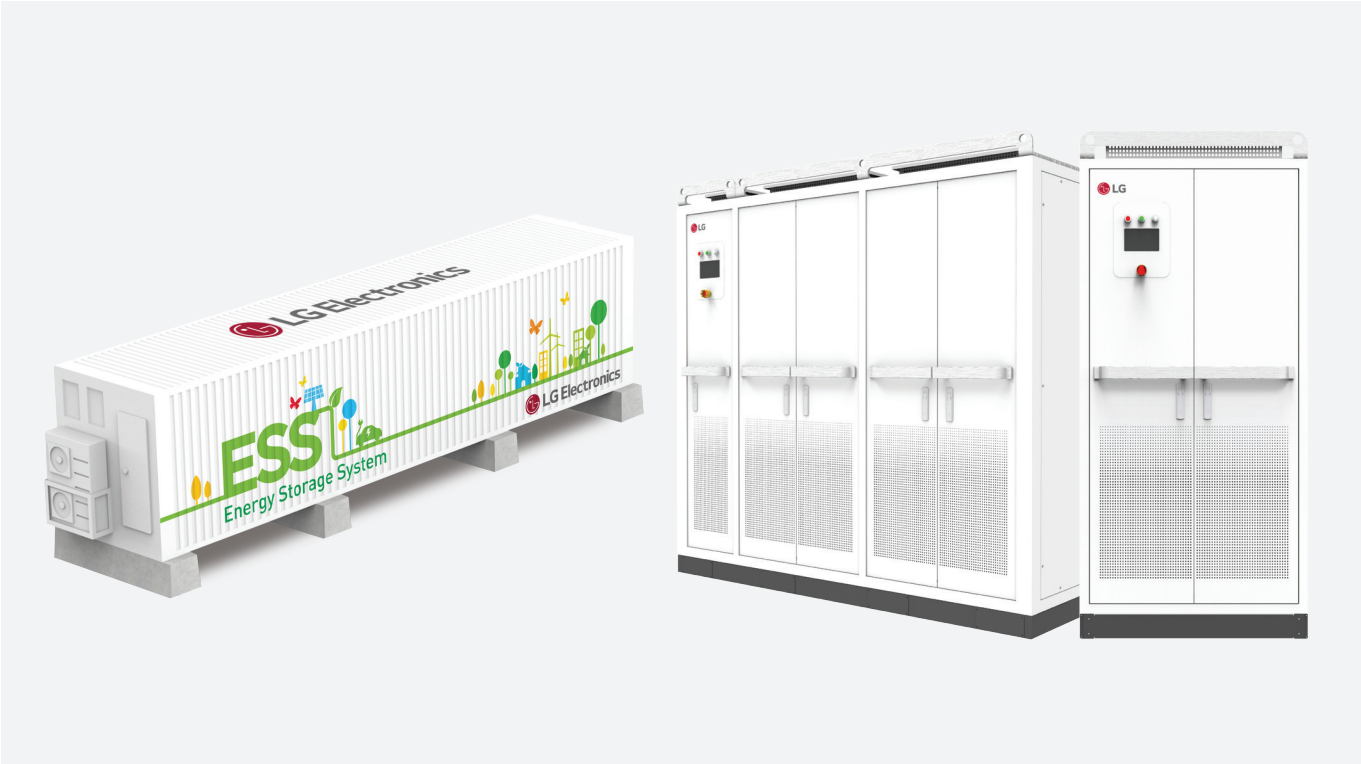
EN

LG Energy Storage System

Power Conditioning System



Feature & Benefit

High Efficiency 98.7%

Applying 3-level topology, LG Electronics supports high efficiency and high quality power.

Efficient Energy Management System

To analyze the customer's energy usage patterns and to response Time-of-Use pricing, LG Electronics offers efficient energy management system.

Optimized Algorithm

Heat production is reduced using optimized thermal analysis and design. And the reliable system is offered by algorithms for reduction of harmonics, protection of battery and grid connection, and active damping control.

User-friendly HMI

LG Electronics supports user-friendly HMI with LCD touch screen and UI.

Various Application Solutions

Variety of applications are supported such as peak-shift, peak-cut, frequency regulation, etc.

MW-Class Container Turn-key Solution

Designs to optimize HVAC system, lightings, insulator are maximized the energy efficiency of the container. And sufficient indoor workspace makes easy-maintenance.

LG Electronics ESS Business Division

LG Electronics has launched ESS Business Division and started a business in 2014. LG Electronics develops high efficiency PCS, safety battery control, energy management algorithm that adaptable various scenario, and provides a suitable product for the user's request. From design to integration, LG Electronics provides total solution to our customers. We support full range of products ; Residential ESS with rooftop solar, Commercial & Industrial ESS for peak control, and Utility ESS such as micro grid, frequency regulation, and renewable integration.

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LG Energy Storage System

Power Conditioning System

Specification

Model		EB25T000N01	EB50T000N00	EB75T000N00	EB01M000N00	EF01M000N01
						
AC Input / Output	Nominal Output Power (kW)	250	500	750	1,000	1,000
	Nominal Output Current (A)	515	874	1,311	1,748	1,312
	Nominal Output Voltage (Vac)	280	330	330	330	440
	Frequency (Hz)	50/60				
	Current Harmonic Distortion (%)	< 2				
	Power Factor	> 0.99				
DC Input / Output	Max. Input Voltage (Vdc)	950	900	900	900	1,100
	Max. Input Current (A)	476	750	1,125	1,500	1,500
	DC Voltage Range (V)	550 ~ 820	550 ~ 820	550 ~ 820	550 ~ 820	750 ~ 1,100
Efficiency	Max. Efficiency (%)	98.4	98.7	98.7	98.7	98.7
General Data	Dimensions (W/D/H, mm)	1,100 x 750 x 2,135	2,210 x 1,110 x 2,110	2,210 x 1,110 x 2,110	2,210 x 1,110 x 2,110	2,860 x 1,000 x 2,077
	Weight (kg)	730	2,250	2,550	2,750	3,000
	Operating Temperature Range (℃)	-20 ~ 40				
	Cooling	Forced Air				
	IP Grade	21				
RTU	Communication	RS-485, Modbus, CAN				
	Input / Output (CH)	4/4				
HMI	Communication	RS-232/422/485, Ethernet, USB				
	Display	TFT LCD & Touch				

Reference Site

KEPCO Shingyeryong substation

PCS : 24MW / Bat. : 6MWh
Frequency Regulation

LG Electronics (Incheon)

PCS : 4MW / Bat. : 1MWh
Frequency Regulation

LG Chem. (Iksan)

PCS : 3MW / Bat. : 23MWh
Peak-Shift

Daelim Industrial (Jeonju)

PCS : 1MW / Bat. : 2MWh
Peak-Shift

Masan University (Changwon)

PCS : 1MW / Bat. : 2MWh
Peak-Shift

LG Hausys (Oksan)

PCS : 500kW / Bat. : 1.5MWh
Peak-Shift

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Sales : Seoul Square, 416, Hangang-daero, Jung-gu, Seoul, Korea
R&D/Production : LG Electronics, 322, Gyeongmyeong-daero, Seo-gu, Incheon, Korea

http://www.lg.com/global/business

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