



Head Office

Dongdaegu-ro 465, Dong-gu, Daegu,
Republic of Korea

Factory / R&D Center

Chorok-ro 680-61, Yanggam-myeon,
Hwaseong, Gyeonggi-do,
Republic of Korea

 www.remplir.co.kr

 +82 31 355 0797

 sales@remplir.co.kr



Website



Youtube



Linkedin



PRODUCT CATALOG 2025

Company Introduction

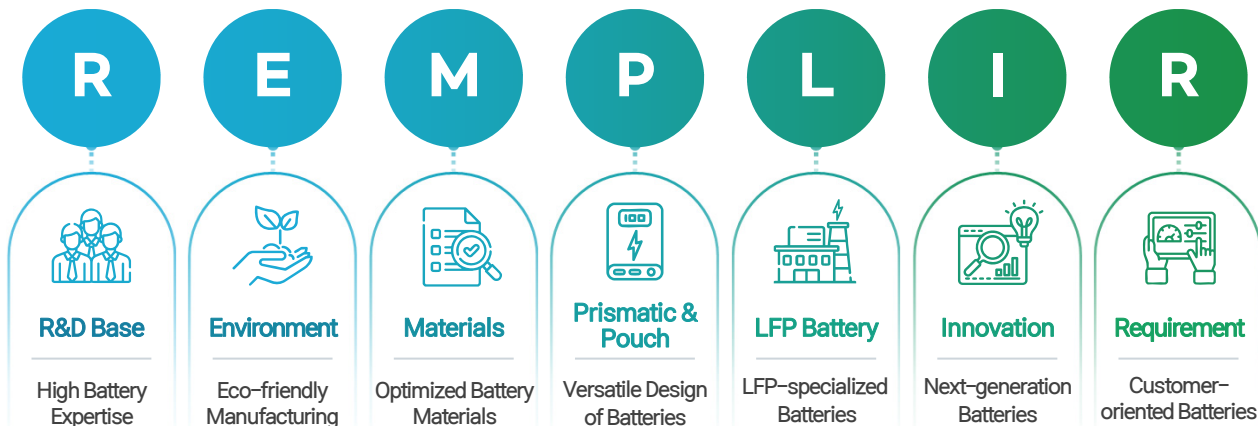
Remplir: Korea's first LFP manufacturing company

Vision

Leading a sustainable future with innovative energy solutions, growing as a globally trusted company.

To become a global leader in battery-driven energy transformation for a sustainable future.

Strength

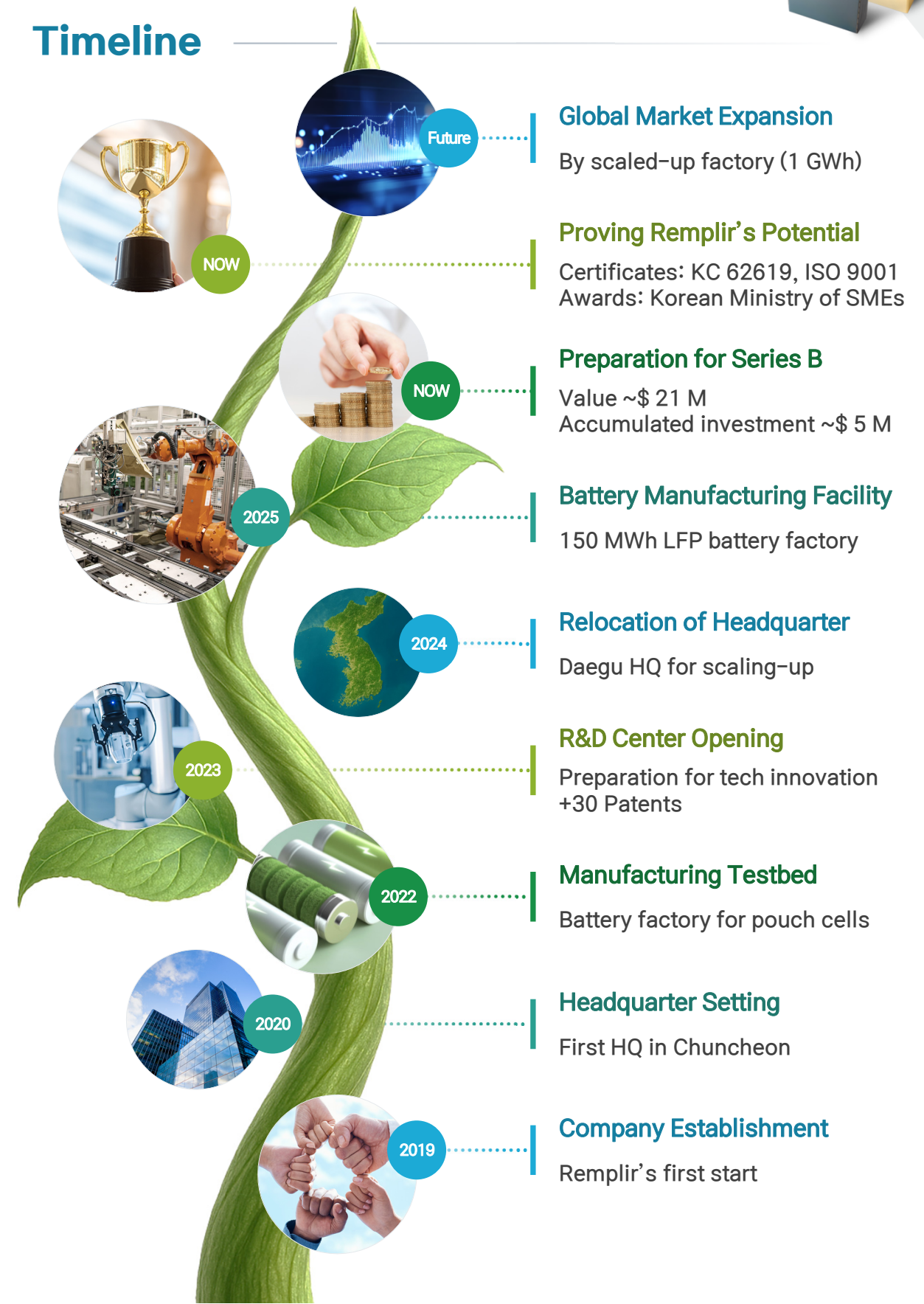


Roadmap

Remplir



Timeline



LiFePO₄ Prismatic Cell

Experience the Korean LFP (LiFePO₄) prismatic batteries!

From raw material process to battery design, we offer complete battery products based on our own technologies.

Mainly prismatic form, but we can tailor it for you.



314Ah LFP Prismatic Cell	Product	230Ah LFP Prismatic Cell
	Voltage	
* Nominal 3.2 V	Capacity & Energy	* Nominal 3.2 V
* Nominal/Minimum 314 Ah 1 kWh	Rate	* Nominal/Minimum 230 Ah 736 Wh
Up to 1 C * Discharging-based	Cycle life	Up to 2 C * Discharging-based
~ 8,000 * 80% of initial capacity	Temperature	~ 5,000 * 80% of initial capacity
-20 to 65°C	Size & Weight	-20 to 65°C
73 x 174 x 204 (mm) 5.7 kg	Application	53 x 174 x 204 (mm) 4.2 kg
Stationary (ESS, UPS)		Mobility (Niche e-mobility)



High Stability

No risk of explosion



Long Cycle Life

More than



For ESS/UPS

Coupling with renewable energy sources



Customization

Customer-tailored design



Lightweight

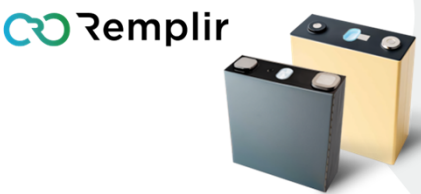
Same capacity, much lighter



For E-Mobility

Cart, Bus, Heavy machinery, Truck, Agricultural mobility

Water-based Sustainable LFP Cells



Remplir



Sustainable Water-based Slurry



Fluorine-free Binder



No Need for NMP Recovery System

Competitors



Toxic NMP-based Slurry



Fluorine-containing Binder



Expensive NMP Recovery system



Eco-friendliness

Low wastewater generation
Reduced air pollution



Non-toxicity

NMP solvent-free
PFAS-free binder



Cost reduction

Low raw material cost
No NMP recovery system



High performance

7% of energy improvement
due to decreased amount of binder

LFP BATTERY ENERGY STORAGE SYSTEM

Reliable, Sustainable, Secured



ESS Pack Energy Storage System Pack

Specifications

Voltage	12 V / 24 V / 48 V (Customizable)
Controller	4S-16S BMS / PCB board and wire
Connector	Flexible busbar
Sensor	Temperature, current, voltage sensors
Buffering damper	EVA sponge with epoxy board
Size	12 V: 325 x 220 x 250 (mm) 48 V: 680 x 410 x 260 (mm)
Storage Temperature	-20 to 55°C

Detailed information

- LFP battery-based pack mainly for ESS
- LCD monitor screen for 48 V pack
- Communication interface (CAN/RS485) for 48 V pack



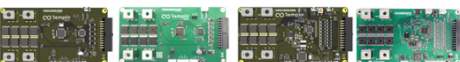
BMS Battery Management System

Specifications

Target battery type	LFP
Target module	4S-16S
Charging/Discharging current	150 A (for 4S), 100 A (for 16S)
Charge/Discharge voltage	1.2-4.4 V (adjustable)
Voltage acquisition accuracy	EVA sponge with epoxy board
Communication	±5 mV
Size	140 x 75 x 17.5 (mm)

Detailed information

- LFP Battery cell/module management for ESS/e-mobility application
- Sensing and distribution of voltage/current
- Rapid communication equipment
- Protection function (OVP, UVP, OTP, UTP, OCP)



LFP BATTERY E-MOBILITY SOLUTION

Powerful, Practical, Secured

KEY ADVANTAGES of Remplir's LFP-based Battery Cell and Module

High Safety

Remplir's LiFePO₄ batteries have passed through all tests of crashing, squeezing, nail penetration and flaming. The high safety has been ensured.



Long Cycle Life

Remplir's batteries and module can remain 80% capacity after 5,000 cycles. The lifespan of our batteries are up to 15 years.



High Efficiency

High charging efficiency > 98%, our batteries can be fully charged in one hour.



Module Specification	12 V Module	24 V Module
Model Name	RPM-12V-1.28kWh	RPM-24V-2.56kWh
Nominal Voltage	12.8 V	25.6 V
Capacity (± 5 Ah)	230 Ah	230 Ah
Energy	1.28 kWh	2.56 kWh
Assembly	LFP Prismatic cell assembly (230Ah/3.2 V)	
BMS Function	Protection from overcharging/discharging, overheating Battery balancing	
Module Life Time	~ 5,000 cycles @ 2 C (80% DOD)	