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Lithium Force Group

LF Solar Energy Balcony

Smart Solar Energy for Modern Living



Product Presentation — European Residential

Last updated: September 2026

BALCONY SOLAR, MADE SIMPLE

Turn available balcony space into local renewable generation with a compact LF solar system designed for everyday residential use.



1. Capture

Balcony solar panels capture sunlight.

2. Convert

The LF SMI-800 converts solar DC into usable AC power.

3. Use

Use locally generated solar power for household loads during the day.

4. Coordinate

The grid supplies additional energy when solar generation is insufficient.

CLEAN ENERGY
BRIGHTER
TOMORROW

Your Complete LF Balcony Solar System

Standard Balcony Solar: LF Solar Panels → LF SMI-800 Micro Inverter → Home / Grid
Balcony Solar + Storage: LF Solar Panels → LF-H Hybrid Inverter → LF Battery Storage → Home / Grid



Solar Panels

- LF-LJM1-200W36
- 200W monocrystalline PERC
- ETFE + slim black frame

Compact 200W LF modules convert balcony sunlight into DC electricity for the residential solar system.



LF SMI-800

- 800W AC output
- Two PV inputs
- Wi-Fi monitoring

The LF SMI-800 converts PV DC into grid-compatible AC and provides system monitoring through Smart Life.



Optional Storage

- Energy storage option
- Battery model to be confirmed
- System expansion ready

Add compatible LF energy storage when required to retain surplus solar generation for later use.



Home / Grid

- Household loads
- Grid connection
- Local solar use

Solar power is converted for household use, with the grid supplying the difference when solar generation is lower than demand.

From sunlight on your balcony to intelligent energy throughout your home.

SUSTAINABLE ENERGY
FOR EVERY HOME

How Balcony Solar Works for You

Four pillars that bring clean, smart energy to your home — every day.

Solar Self-Consumption

Generate and use clean electricity directly from your balcony during the day.

Optional Energy Storage

Store surplus solar energy in a compatible LF battery for later use.

Smart Control

Monitor generation and system performance remotely through the Smart Life app.

Backup & Energy Management

Supports energy management across solar generation, battery storage and household loads.



Smart Hybrid Technology

LF-H-1.6K / 2.4K-48V-EU IP66 Balcony Storage Hybrid Inverter — engineered for intelligent, efficient residential energy management.



Efficient MPPT
Optimises solar energy capture across varying light conditions

Fast Charging
High charging & discharging efficiency for rapid energy cycling

IP66 Protection
Weather-sealed for reliable outdoor balcony installation

Smart App Control
Monitor and manage your energy system remotely via mobile app. DSP digital control with battery undervoltage wake-up for uninterrupted performance.

Lithium Force Group

Small Change. A Big Impact.

Turn available balcony space into local renewable generation and use clean solar energy at home.

Renewable Generation at Home

Intelligent Energy Management

LF Solar Energy Balcony • LF GROUP



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