

MOVA
MOVE AHEAD



LumeGret A4000

Powered by Sunlight, Guided by Intelligence





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MOVA LumeGret A4000 Solar Power System is an intelligent plug-and-play home energy solution. It features 4 MPPT controllers with 2800W solar input for efficient power harvesting, 4–20 kWh scalable storage for flexible capacity, and 2500W bi-directional AC output for efficient energy use. Powered by LumeGret Orbit™ AI scheduling, controlled via the MOVAhome app, and enhanced with FluxCharge™ EV charging, it enables smarter and more reliable home energy management.

Key Features



Flexible Plug-and-Play Installation

The all-in-one design integrates the inverter, battery and controller into a single unit for less wiring and faster setup. Multiple MPPT inputs optimize PV strings for different roof orientations, reducing installation time and costs.



4–20kWh Scalable Capacity, Power On Demand

It starts with a 4kWh base capacity to meet daily needs for loads under 2000W and expands up to 20kWh. The vertical stacking design allows up to 4 parallel battery packs for step-by-step expansion to match evolving household energy demands.



4-MPPT 2800W, 2500W Bi-Directional AC Power

Capture more energy with 4-MPPT and 2800W for ultra-efficient solar conversion. With 2500W bi-directional AC power, it integrates with AC-coupled rooftop solar, enables grid and solar charging, and provides reliable backup during outages.



LumeGret Orbit™ AI Forecasting & Tariff Optimization

LumeGret Orbit™ cuts electricity costs using AI PV forecasting and smart tariff tuning. By integrating data from 860+ global energy suppliers, it maximizes solar usage—delivering an extra €60–100* in winter savings and enhanced low-light performance.

Specifications

MPPT	2800W
MPPT Efficiency	99%
Grid-Tied AC	800W / 2,500W
Off-Grid AC	2,500W
AC Charging (Battery)	Max. 2000W
Battery Capacity	4kWh
Max Capacity	20kWh
Inverter Efficiency	92.8%
IP Protection Rating	IP65

Features



Plug-and-Play Setup



4-20kWh Scalable Capacity



4-MPPT 2800W



Bi-Directional AC Power



AI Forecasting & Tariff Optimization



Solar-Adaptive EV Charging

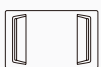


Long Life & Durability

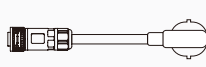


App Energy Control

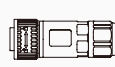
What's in the Box



LumeGret A4000
x1



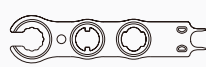
AC Power Cord
x1



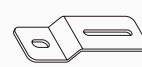
RS485 Connector
x1



Expansion Screw
x2



MC4 Wrench
x1



Mounting Plate
x2



Rubber Feet
x4



Flat Head Screw (M4x10) x4



Flat Head Screw (M5x10) x4