

Maxout Renewables Evergrid



Maxout's Evergrid lets a standard, grid-tied inverter power a home when the grid is down. Evergrid provides surge power, voltage stabilization and line balancing to power refrigerators, lights and whole-house air conditioning.

Evergrid is an easy retrofit to existing systems, and a valuable addition to a new system. Starting at under \$1000, it is a cost-effective, safe way for homeowners to maximize the value of their solar installations—and to keep the power on, regardless of grid conditions.

Backup Power for Grid-Tied Systems

Standard inverters need the grid to maintain the AC voltage waveform and provide surge power. Without the grid, a standard inverter can't function.

The Evergrid stands in for the grid during a power outage, featuring:

- AC voltage stabilization and load management
- Up to 10 kW (15 kVA) surge power *in addition* to the array's output power
- Cost-effective solution for any new or retrofit PV system (single-phase string inverter or microinverter)

Extend Component life for Battery-Equipped Systems

The Evergrid does more than just provide backup power. For systems equipped with an AC- or DC- battery backup system (such as Tesla Powerwall or LG RENU):

- The Evergrid's surge power lets you size a system for the sustained load rather than maximum load—a massive upfront cost savings.
- Evergrid handles most of the transient surges, extending the life of the batteries.

Evergrid Standard. Turnkey unit connects to PV system for whole-house daytime power. Residential and small commercial applications.

Evergrid Backup. Standard Evergrid plus up to 10kWh LiFePO₄ battery for nighttime backup power.

Evergrid-EP. Portable unit connects to external automotive battery for disaster recovery assistance.

Polyverter. All-in-one hybrid inverter with built-in Evergrid for whole-house, on-grid, and off-grid PV power.

Evergrid Specifications

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| Surge Power Capacity, 3 s duration | 5 kW or 10 kW (15 kVA), added to PV system power |
| Inverter Compatibility | single-phase string inverter or micro inverter |
| Maximum PV system size | 12 kW |
| Quiescent Load | <20 W (typ.) |
| Internal Excess Power- Dissipation Capacity | 5 kW |
| Dimensions (H x W x D) | Evergrid EP: 38 cm x 52 cm x 35 cm (15" x 20" x 14") Evergrid Standard: 76 cm x 63 cm x 40 cm (30" x 25" x 16") |
| Mounting | Free-standing or wall mounted |
| Installation | Addition of one 2-throw 50/75 Amp breaker and a mechanical interlock or automatic transfer switch to the service disconnect* |
| Enclosure Type / Environment | NEMA 1 enclosure for indoor installation (standard); NEMA 3A enclosure for outdoor installation (optional) |

*consult local electrical codes



Evergrid Standard



Evergrid EP with external battery

EVERGRID WHOLE HOUSE SYSTEM WITH EMERGENCY BACKUP CAPABILITY

