



MI-GRID ESSENTIAL POWER

What can Mi-Grid Power?

Mi-Grid powers regular 120/240VAC electrical circuits. Mi-Grid Essentials limits high power circuits to utility and generator.

How does it work.

Mi-Grid at its heart is an energy management system. It controls all available AC and DC sources, including Solar, Battery/Inverter, Utility & Generator, routing power based on what is available, reliable and least expensive.

Essential Circuits

A small Mi-Grid can operate a large electric system by splitting the power into essential & intermittent circuits. *Essential circuits* are 120VAC circuits, lights, ceiling fans and all outlets (see diagram). *Intermittent circuits* are high power 240VAC circuits. With a larger inverter, some 240VAC circuits can be moved to the essential panels.

Essential circuits are directly connected to the inverter, never losing power. Activating within 1/60th of a second, all essential circuits stay on.



The 240VAC circuits are connected to an intermittent panel. These circuits operate as normal, on loss of utility power they will only operate with the generator. A very small Mi-Grid system can power a large house or business with little or no inconvenience and saving significant capital costs.

240VAC power systems, air conditioners, hot water tanks, electric stoves, ovens, pumps, etc. operate with the generator. Not needing to be powered all the time, the generator runs only as needed, reducing fuel, maintenance and lengthening the life of the of the Generator.

Larger Inverter

With a larger inverter, more circuits can be placed into the

essential panel, including whole house Air Conditioners. The larger the inverter, the more can be connected.

Off-Grid

Mi-Grid essentials works ongrid or off-grid. Off-Grid, Mi-Grid reduces generator run time by up to 90% compared to operating with a generator alone. And a Mi-Grid Essentials system is 1/3rd the price, **OR LESS**, of a stand alone solar energy system.

Phased installation

All Mi-Grids can be installed starting with the backup generator, then adding the battery, inverter and solar systems, spreading cost over time.

Retrofit

Mi-Grid can be retrofit onto an existing Grid-Tied solar energy system.

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