



Modular Microgrid Solutions

The BoxPower SolarContainer is a modular, pre-engineered microgrid that integrates solar PV, battery storage, inverters, and an optional backup generator. BoxPower systems are pre-wired in standard 20' shipping containers to withstand harsh weather conditions, simplify shipping, reduce costs, and increase security. Solar arrays are mounted directly onto the container using BoxPower's proprietary racking system.

SolarContainer

Clean, Reliable, Affordable
Energy Anywhere

Standard SolarContainer Size Range

The SolarContainer is highly configurable, with the ability to seamlessly adjust the solar, battery, and inverter capacities to optimally serve your energy loads. Component size ranges for a single container are as follows:

	Minimum	Maximum
Solar PV	3.8 kW	25.2 kW
Battery Storage (LiFePO4)	7.4 kWh	148 kWh
Inverter	6.8 kW	27.2 kW
Voltage and Phase	120/240V single-phase	120/208V three-phase
Backup Generator (optional)	8.5 kW	50 kW

✓ Shipping size: 20' x 8' x 8.5'

✓ Maximum footprint: 40' x 30'

✓ Installed size: 29' x 39'

✓ Suitable for installation on any level surface

Sample Configurations



Solar PV: 17.3 kW
Battery: 80 kWh
Inverter: 13.2 kW



Solar PV: 22 kW
Battery: 133 kWh
Inverter: 21 kW
Generator: 35 kW (propane)

Optimized for 100% Reliability at Least Cost

BoxPower ensures accurate SolarContainer sizing through an in-depth energy audit analyzing your consumption and load profile. We design your ideal microgrid solution optimized for your priorities, whether that be clean energy percentage, project economics, or reliability.

SolarContainer Features

Standard Features

Permit Ready	Fully compliant and up to code for easy permitting
Safe	Fire suppression with either chemical or water agent; electrical fault and overcurrent protection
Battery Backup	Battery backup system provides power when PV is not being generated and to enable peak shaving
Intelligent Bi-Directional Inverters	Top-of-the-line intelligent inverters increase efficiency, extend battery life, and provide remote monitoring access
Shipping Container Enclosure	Rugged, safe, and secure containers withstand the harshest weather conditions
Vents and Climate Control	Support system longevity and efficiency by maintaining a stable temperature for batteries and inverters
Easy Racking System	Solar array can be installed, uninstalled, and moved quickly
Remote Monitoring	Online monitoring software allows for troubleshooting, report generation, maintenance notifications, and diagnostic services
Warranty	Equipment manufacturer warranty for all components as well as BoxPower workmanship

Optional Features

Diesel or Propane Generator	Fully integrated to deliver 100% reliability during daily and seasonal fluctuations in solar production
Auxiliary Ground-Mounted Array	Provides additional PV generation capacity for higher loads
Vents and Climate Control	Support system longevity and efficiency by maintaining a stable temperature for batteries and inverters