



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

✓ Shipping size: 20' x 8' x 8.5'

✓ Installed size: 29' x 39'

✓ Maximum footprint: 40' x 30'

✓ 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

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

### Optional Features

<b>Diesel or Propane Generator</b>	Fully integrated to deliver 100% reliability during daily and seasonal fluctuations in solar production
<b>Auxiliary Ground-Mounted Array</b>	Provides additional PV generation capacity for higher loads