



**POWER  
DESIGN**

**BACKUP POWER PROGRAM**





## Power Design: Your Trusted Partner

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As a design build multi-trade contractor with over three decades of experience and projects nationwide, we've developed a reputation as an industry leader through an unwavering commitment to quality, accountability, and innovation. We believe in doing things differently and building better.

That's why our partners trust us time and time again, to bring their visions to life.

# Backup Power Program

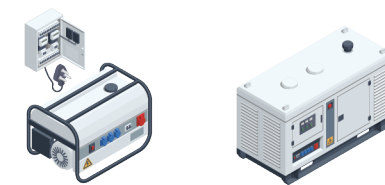
While assisting community partners during recent weather events, we recognized a pressing need for simplicity and preparedness in residential backup power.

Many homeowners were caught off guard, struggling to restore power and facing unsafe living conditions. In response, we created the Backup Power Program—offering straightforward solutions to ensure reliable power and safety when the grid fails.



BASED ON 2,000 SQ. FT. SINGLE FAMILY HOME

## Gas Generator Comparison



FEATURES	LEVEL 1 Set-in-Place Gas Generator	LEVEL 2 Whole House Generator
Does it Power Large Appliances (including A/C and Water Heater)?	✗	✓
Does it Power Small Appliances (Lights, Microwave, Chargers)?	Minimal	✓
Require Natural Gas Line?	Fuel Supplied by Owner	✓
Fully Automated?	✗	✓
Increased Property Value?	✓	✓
Self Diagnosis for Maintenance?	✗	✓
<b>Price</b>	<b>\$1,500++</b>	<b>\$12,000++</b>

Notes	Includes Generator and Transfer Switch; Can Use Pre-existing Generator if Owner's is Compatible with Switch	Includes permitting, drawings, unloading, concrete pad, gas hook up, electrical work, final inspections  Annual maintenance fee
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## Solar & Battery Comparison



FEATURES	LEVEL 1 Manual Transfer Switch	LEVEL 2 Partial Home Backup	LEVEL 3 Solar with Battery
Does it Power Large Appliances (including A/C and Water Heater)?	✗	✗	✓
Does it Power Small Appliances (Lights, Microwave, Chargers)?	Depends on Battery Size	✓	✓
Backup Duration	4+ Hours	6+ Hours	Unlimited
Fully Automated?	✗	Can Be	✓
Increased Property Value?	✓	✓	✓
Self Diagnosis for Maintenance?	✗	✓	✓
<b>Price</b>	<b>\$1,500++</b>	<b>\$10,000++</b>	<b>\$25,000++</b>

Notes	Only Compatible with Portable Battery or Generator	Qualifies for Tax Credit Can Choose What to Power  Can be Paired with Existing Solar 5-8 year ROI	Qualifies for Tax Credit Reduces Power Bill  5-7 year ROI
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## GAS GENERATOR LEVEL 1

# Manual Transfer Switch



### OVERVIEW

- **Provides a continuous power supply** to limited devices (charging stations, lights etc.)
- **Can provide peace of mind during emergencies**, such as natural disasters or storms.
- **Professionally installed outdoors**, so it doesn't pose the carbon monoxide safety issues.
- **Cost effective** if you already have the portable generator purchased.
- **Can provide generator** if you do not already own one.

### BENEFITS

- ⚡ Minimal items stay powered on
- 💰 Cost Effective
- 😊 Peace of Mind
- 🛡️ Safety
- 🚚 Generator/Battery Agnostic

### OBSTACLES TO CONSIDER

- Large appliances will not function.
- Fuel storage: If your generator runs on propane or diesel, you'll need to store and replenish the fuel safely.
- Maintenance.

### REQUIREMENTS

- Site Visit Required
- Possible HOA Approval

## GAS GENERATOR LEVEL 2

# Whole House Generator



### OVERVIEW

- **Provides a continuous power supply to your home during a power outage**, keeping your appliances, heating, and cooling systems running.
- **Can provide peace of mind during emergencies**, such as natural disasters or storms.
- **Fully automated**, so you don't have to manually start and stop it.
- **Increased property value.** A whole-house generator can increase the resale value of your home, especially in areas prone to power outages.
- **A whole-house generator is professionally installed outdoors**, so it doesn't pose the carbon monoxide safety issues of a portable generator.
- **You can choose a generator that runs on various fuel sources**, such as propane or natural gas.
- **A whole-house generator runs a self-diagnosis and lets you know when maintenance is needed.**

### BENEFITS

- ⚡ Power reliability
- 🔧 Peace of Mind
- 🔍 Self Diagnosis
- 🛡️ Safety
- 😊 Convenience
- 🚚 Fuel Options

### OBSTACLES TO CONSIDER

- Cost: Labor costs can account for 30–40% of the total project cost.
- Size: Whole-house generators are large and require a level concrete pad outside your home.
- Noise: Whole-house generators can be noisy, especially when cooling down.
- Fuel storage: If your generator runs on propane or diesel, you'll need to store the fuel safely.
- Maintenance.

### REQUIREMENTS

- Site Visit Required
- HOA Approval
- Gas Hook Up

# Manual Transfer Switch



## OVERVIEW

- Provides a continuous power supply to limited devices (lights, receptacles, small appliances).
- Can provide peace of mind during emergencies, such as natural disasters or storms.
- Can be installed outdoors or in garage.
- Cost effective, may already have the portable generator or battery purchased from a big box store.
- Can upgrade to Automatic Transfer Switch for seamless power transfer.

## BENEFITS

- ⚡ Minimal items stay powered on
- 💰 Cost Effective
- 😊 Peace of Mind
- 🛡️ Safety
- 🚚 Generator/Battery Agnostic

## OBSTACLES TO CONSIDER

- Large appliances may not function.
- Existing generator/battery may not be large enough.

## REQUIREMENTS

- Site Visit Required
- Possible HOA Approval

# Partial Home Backup



## OVERVIEW

- Provides a continuous power supply to partial or whole home (dependent on battery size)
- Can provide peace of mind during emergencies, such as natural disasters or storms.
- Can be fully automated, so you don't have to manually start and stop it.
- Professionally installed outdoors or in garage.
- Can eliminate power bumps.
- Can easily be added to existing solar.

## BENEFITS

- ⚡ Essential systems stay powered on
- 💰 Cost Effective
- 😊 Peace of Mind
- 📦 Stackable to add capacity
- 🔧 Little/no maintenance or recurring costs.
- 🛡️ Safety
- 💰 Qualifies for 30% tax credit

## OBSTACLES TO CONSIDER

- Cost: Labor costs can account for 30-40% of the total project cost.
- A/C may not function depending on battery capacity.
- Requires Maintenance, Concrete Pad.

## REQUIREMENTS

- Site Visit Required
- HOA Approval







# Solar with Battery



## OVERVIEW

- **Gain energy independence by producing your own power** and store it in batteries to be used at night or during an outage.
- **Can provide peace of mind during emergencies**, such as natural disasters or storms.
- **Fully automated**, so you don't have to manually start and stop it.
- **Increased property value -A whole-house ecosystem** can increase the resale value of your home, especially in areas prone to power outages.
- **Solar and battery setups can provide limitless silent power.**
- **Solar and Battery systems self-diagnosis** and lets you know when maintenance is needed.

## BENEFITS

-  Unlimited Power
-  Self Diagnosis
-  Convenience, and peace of mind
-  Little to no maintenance or recurring costs.
-  Safety
-  Qualifies for 30% tax credit

## OBSTACLES TO CONSIDER

- **Cost:** Labor costs can account for 30–40% of the total project cost.
- **Cost:** Higher up front cost, but the investment pays for itself over a period of time.
- **Size:** Unobstructed roof space required.

## REQUIREMENTS

- Site Visit Required
- HOA Approval



# Let's Connect

Visit our website to learn more about our offerings and request a solution consultation.

[PowerDesignInc.us/BackupPower](https://PowerDesignInc.us/BackupPower)

