

# MOWGEN

## Introducing *MowGen*!

A portable generator that mounts to a riding mower!  
It utilizes the mower's engine and belt driven pulley system to generate electrical power.

**MowGen** includes multiple 120V and 220V outlets allowing versatility to power a home electrical panel or be a portable generator for powering chainsaws, drills, hedge trimmer, or other electrical devices.

Learn More! ➤





## Problem | Solution

Gasoline-powered generators are commonly used during extreme weather events when utility power is unavailable. However, due to their infrequent use, these backup generators often encounter fuel-related problems and fail to operate when needed most. It's also important to note the added complexities when having to move or transport the generator.

In contrast, most homeowners possess lawn tractors that are used more frequently and are typically in good working condition.

**MowGen** addresses the reliability and mobility issues by providing a self-contained portable generator that mounts to these more powerful and reliable riding mowers.

Designed to use the same power take off pulley system as a standard mower deck, **MowGen** is powered by the mower engine. It utilizes an auxiliary generator activation clutch lever to engage/disengage the generator and the existing throttle control to provide continuous adjustable power.

Most importantly, **MowGen** leverages the more reliable, frequently used lawn mower engine, ensuring functionality when other less utilized generators fail.



## **MowGen** | Key Points & Features

- **Generator Unit -**

The core of **MowGen** is a generator providing both 120V and 220V electrical power making it suitable for connecting to an electrical panel that distributes electrical power to a home/ business as well as powering individual household appliances and a wide variety of electrical tools.

- **Portability -**

By mounting the generator to a riding mower, **MowGen** becomes a highly mobile power source. This mobility allows the user to drive the mower to wherever power is needed, making it ideal for use on large properties and in remote areas.

- **Reliability -**

**MowGen** capitalizes upon the reliability of a riding mower's engine, which is typically well-maintained and frequently used. This reduces the risk of engine failure during times the generator is needed most.



# Overall Structure | Components & Parts

## Belt Pulley System

The generator is driven by the same belt and pulley system that powers the mower deck, making the transition seamless for the user.

### \*Control Mechanisms:

**MowGen** uses the existing throttle control of the riding mower to adjust the power output of the generator. This allows steady engine power to the generator pulleys for consistent electrical power output.

## Generator Activation Arm

Activates power generator by engaging tensioner pulley.

## Easy Maneuver Handle

The ergonomic handle allows the device to be rolled out from under the mower.

## Double Sided Access

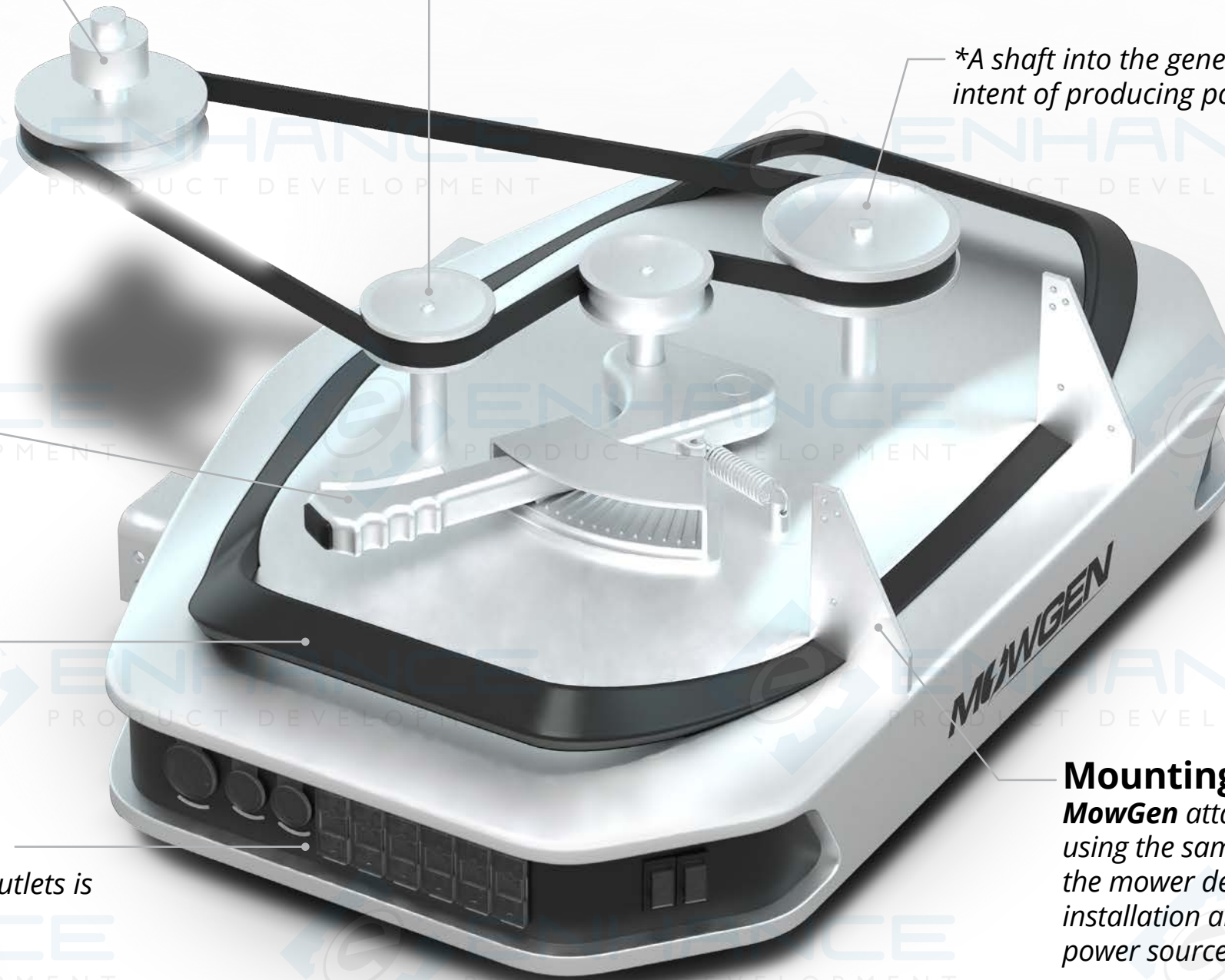
The specific combination of outlets is accessible on both sides.

\*This component can either be an additional pulley or another power producing shaft into the generator unit.

\*A shaft into the generator with the intent of producing power.

## Mounting System

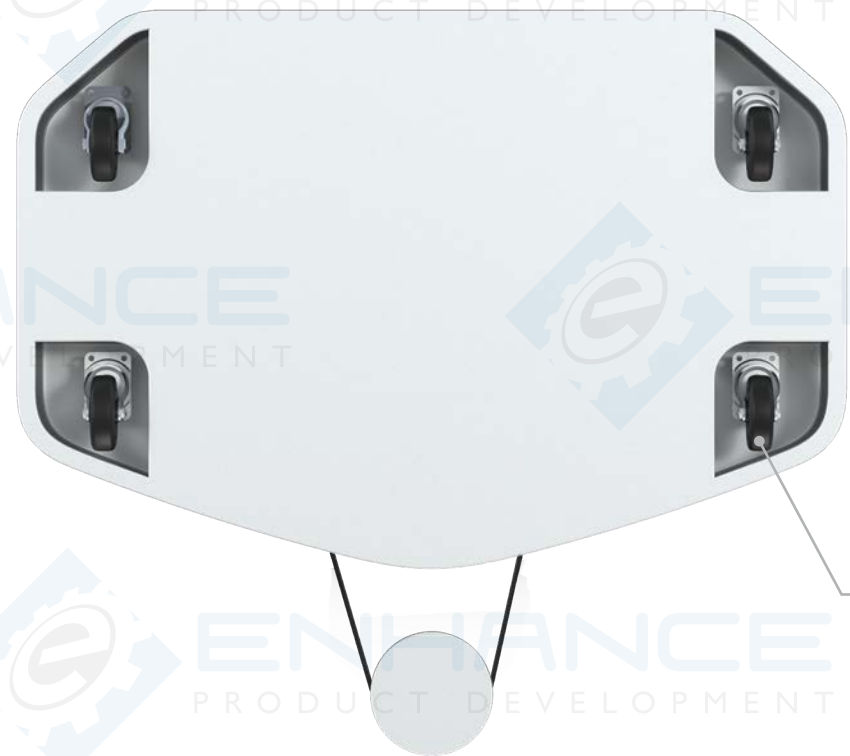
**MowGen** attaches to the riding mower using the same mounting points as the mower deck. This ensures easy installation and a completely portable power source.



Overall structure | Product Views

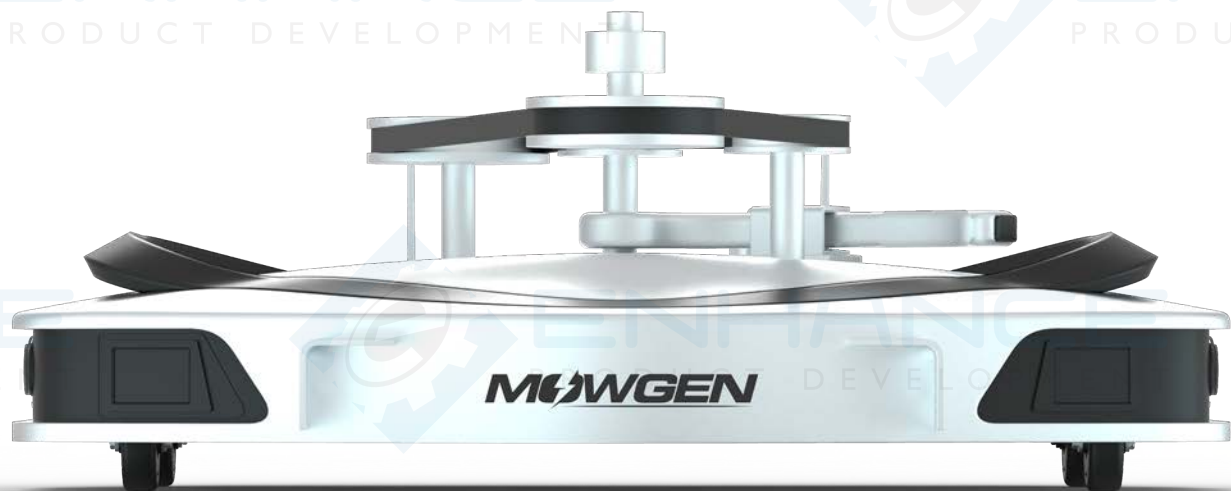


Top View

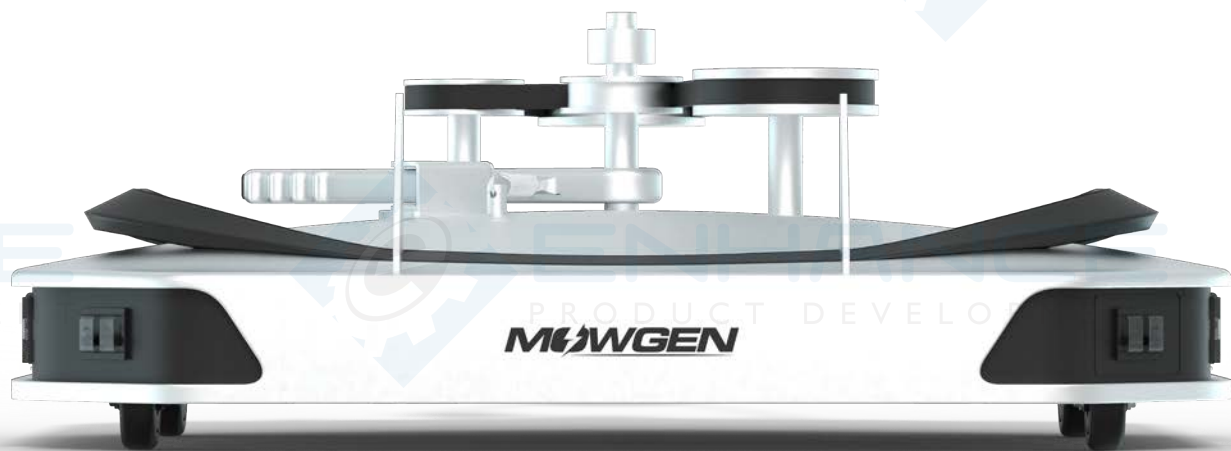


Bottom View

**Adjustable Swivel Wheels**  
Allows for 360-degree mobility.



Front View



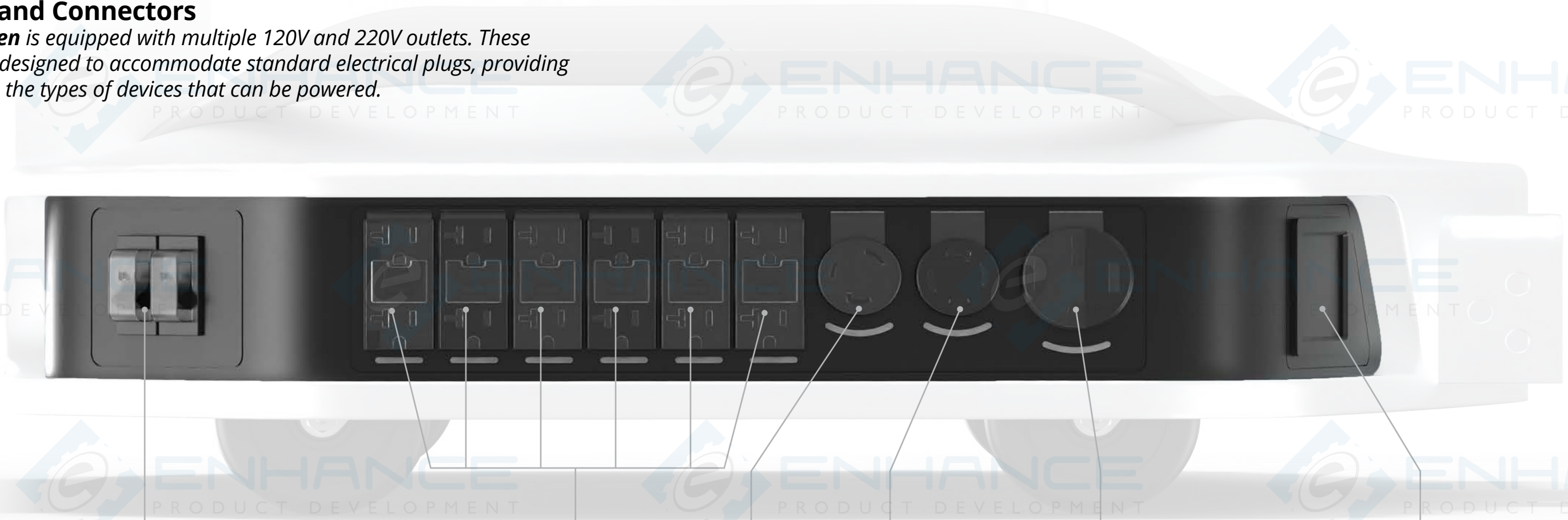
Back View



# Features | Outlets & Connectors *(Right Side)*

## Outlets and Connectors

The **MowGen** is equipped with multiple 120V and 220V outlets. These outlets are designed to accommodate standard electrical plugs, providing flexibility in the types of devices that can be powered.



**Breaker Switches**  
*Controls power output.*

**120V Household Power**  
QTY 6

**AC 120 / 240V 50A**

**Control Center**  
*Displays operating frequency, voltage output, and power usage.*

**AC 120 / 240V 30A**

**AC 120V 30A**



5-20R



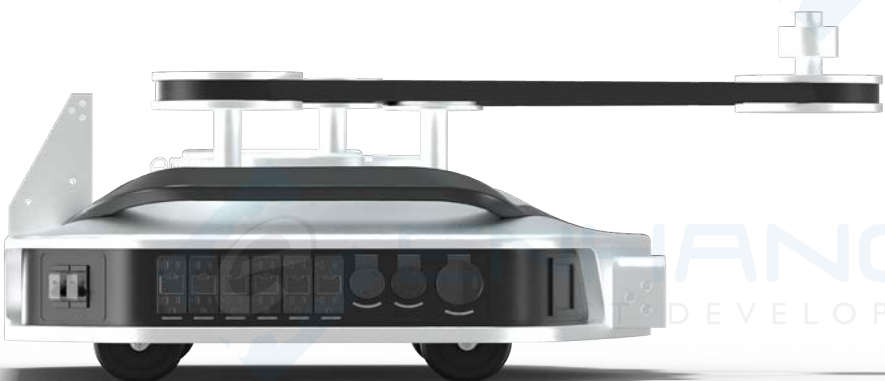
L5-30R



L14-30R



L14-50R



*Right Side View*



Features | Outlets & Connectors (Left Side)



**Control Center**  
*Displays operating frequency, voltage output, and power usage.*



**AC 120 / 240V 50A**



L14-50R

**AC 120 / 240V 30A**



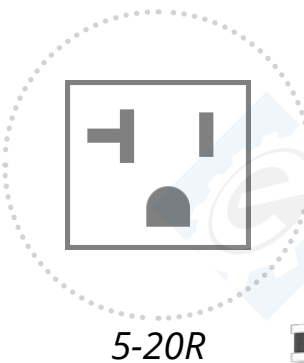
L14-30R

**AC 120V 30A**



L5-30R

**120V Household Power**  
QTY 6



5-20R

**Breaker Switches**  
*Controls power output.*



Left Side View

# ***MowGen*** | Reliable Power When You Need It Most!



# MOWGEN

## Overview | Key Points

- **MowGen** is a portable generator that mounts to a riding mower in place of a mower deck. It utilizes the mower's engine and existing belt pulley system to generate electrical power.
- Designed to utilize the same connection points as the mower deck, **MowGen** provides unmatched mobility and variable throttle control to provide continuous adjustable power.
- **MowGen** capitalizes upon the reliability of the riding mower's engine, which is typically well-maintained and frequently used. This reduces the likelihood of the generator failing when needed most.
- Equipped with multiple 120V and 220V outlets, **MowGen** delivers the flexibility to provide power to a whole home electrical panel, individual home appliances, auxiliary power tools, and a host of other electrical devices.

