COMMERCIAL BATTERY VS GAS LEAF BLOWERS

Model:	**Stihl BRA 600**	$1,069.99 ea	**RedMax EBZ8500**	$669.99
Battery		$481.99 ea		Gas
Charger		$192.99 ea		
Sound Rating		64 dba		113 dba
Air Volume		253 mph w/nozzle		220 mph
Air Flow		883 cfm		1,000 cfm
Blowing Force		34 newtons		47 newtons
Runtime		17 min (two batteries)		80-90 min
Weight		32 lbs		25.5 lbs
Charging Time		40 min / 55 min		refuel

**Manufacturers use different testing standards and practices for their results. This makes comparisons confusing and potentially misleading. Based on Blowing Force (newtons) the data suggests a 33% efficiency loss. This could be conservative due to the power curve of battery and real-world performance.*

When deciding between gas-powered and battery-powered leaf blowers, there are several factors to consider. Noise, power, convenience, environmental impact, and the type of work required. Both types have strengths and weaknesses that make them better suited for the end users.

Gas Leaf Blowers:

Gas blowers have long been the industry standard for professionals and those with large properties. They offer superior power, longer runtime, and greater versatility for heavy-duty tasks like moving wet leaves, sticks, and debris over large areas. Their ability to run continuously, refuel quickly, and handle tough conditions makes them a favorite for commercial landscapers. However, gas blowers are loud, heavy, require regular maintenance, produce emissions, and can frustrate users with hard starts (pull cords, choke, etc.). They are increasingly facing restrictions in cities focused on noise and pollution reduction.

Battery Leaf Blowers:

Battery-powered blowers have advanced significantly in recent years. For homeowners with small to mid-sized yards, they're often the better choice. They are quieter, lighter, easier to start, produce no emissions during operation, and require almost no maintenance. Modern lithium-ion batteries deliver adequate power for most residential needs, though runtime is limited by battery capacity. Swapping batteries or waiting for recharge can interrupt work on larger properties. While not yet matching gas in brute force, high-end battery models can rival some gas blowers for typical yard cleanup.

DISCUSSION TOPICS:

Noise

Performance

Productivity / Efficiency

Emissions

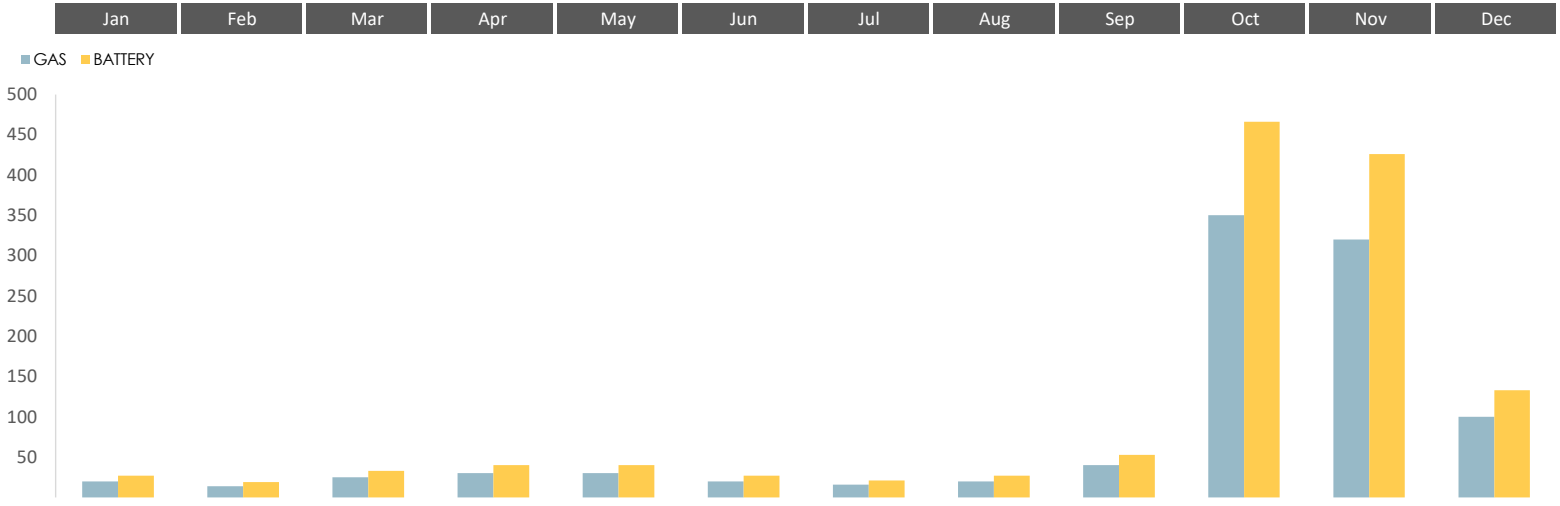
Upfront Cost

Ongoing Cost (fuel, power, maintenance)

Weight / Vibration

Enforcement

ESTIMATED GAS VS BATTERY HOURS



Expenses	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
GAS	20.00	14.00	25.00	30.00	30.00	20.00	16.00	20.00	40.00	350.00	320.00	100.00	985.00
BATTERY	27.00	19.00	33.00	40.00	40.00	27.00	21.00	27.00	53.00	466.00	426.00	133.00	1,312.00

*based on blowing force (newtons) the assumption is a 33% efficiency loss.

Scenario 1:

Assuming gas and battery blowers are equal in terms of performance. What is the cost difference? (based on 985 hours per year)

Gas Blower		$699.99
Fuel 173 gallons ($4.00g)		$692.00
Maintenance		$150.00
	Total	**$1,541.99**

Battery Blower		$1,069.99
Batteries 8 each		$3,855.92
Fast Chargers 6 each		$1,157.94
Gas Generator to Charge Batteries in the field		$4,499.00
Fuel 784 gallons ($4.00g)		$3,136.00
Generator Maintenance		$150.00
	Total	**$13,868.85**

Ultra Quiet EU7000iS 7000-Watt Electric Start Gasoline Powered Inverter Generator

Limit 10 per order

$4,499.00

Top

Honda ★★★★½ (6)

Product Details | **Specifications** | Questions & Answers | Customer Reviews

CO Shutoff Capable	Yes	**Color Family**	Red
Engine Displacement (cc)	389	**Engine Make**	Honda Engine
Features	Auto Idle Control, Automatic Voltage Regulation, Built-in Fuel Gauge, Built-in Hour Meter, CO Shutoff, Electric Start, Extended Handles, Fuel Gauge, Hour Meter, Low Oil Shutdown, On Indicator Light, On/Off Switch, Overload Protection, Replaceable Battery	**Fuel Tank Capacity (gal.)**	5.1 gal
Fuel Technology	Single Fuel	**Full load fuel consumption (gallons/hour)**	.8
Generator Voltage	120/240	**Half-Load Run Time (Hours)**	8
Horsepower (hp)	11.7 hp	**Included**	Battery, Wheel Kit
Number of Receptacles	6	**Operational Volume (dB)**	58
Outlet Type	120/240 Single Phase	**Power/Fuel Type**	Gasoline
Product Weight (lb.)	261 lb	**Returnable**	7-Day
Running Wattage	5500	**Start Type**	Electric Switch, Push Button, Recoil Start
Starting Wattage	7000	**Suggested Uses**	Bench Tools, Halogen Work Light, Large Appliances, Lights, Mobile Devices, Power

Scenario 2:

Operational change for Battery Leaf Blower use. Field blowing tasks would be limited to 1 hour intervals plus 1 hour of charging time. Charging would be performed at the Public Works Facility or where power outlets are available.

Battery Blower		$1,069.99
Batteries 6 each (.337 kwh)		$2,891.94
Fast Chargers 6 each		$1,157.94
Electricity Cost ($0.14 kwh)		$164.01
	Total	$5,283.88