CLEANGENT J250

ZERO EMISSION POWER GENERATOR





Total Annual Estimated CO₂ Savings

108,907 kg/yr

Environmental

Carbon emissions saved per generator:

- 4,802 lb or 2,178 kg per week
- · 240,099 lb or 108,907 kg per year

Diesel fuel saved annually:

- · 10,800 gallons (~\$5.00USD/gal.): \$54,000 USD or;
- 40,882 litres (~2.15CAD/L): \$87,896 CAD

Estimate based on 135 kW generator running at 1/2 load, 8 hours per day, 5 days per week, 50 weeks per year.

Return on Investment

Rented at a premium, customers have realized a 100% ROI in 22 months.

The lithium iron phosphate batteries have a lifespan of approximately 5000 cycles under nominal conditions, which means you can discharge ~80% and recharge the batteries every day for over 13 years.





Benefits & Features

Environmentally friendly. Emits no operational CO

Reduced generator operating costs. No more expensive fossil fuel.

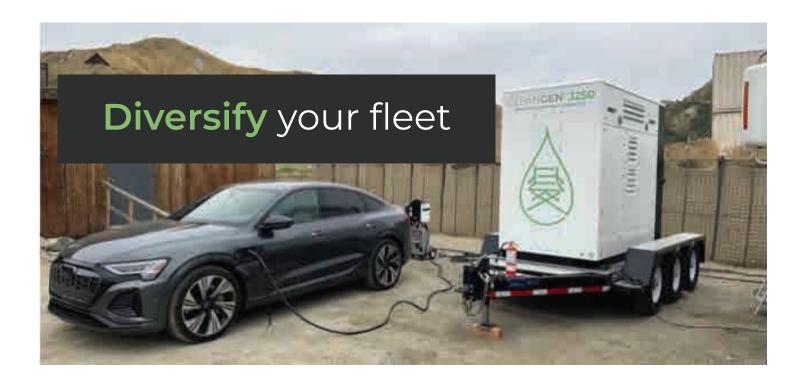
Reduced labour. Because there's no noise and harmful byproducts being given off, CleanGen can be parked close to the required load reducing the need for long cable runs and the costs associated.

Recharge batteries anywhere EVs do. Use CleanGens dual 240VAC EV charging ports to recharge batteries at any EV charging station.

Continuous, uninterrupted power. Drawing on instantaneous battery power, CleanGen provides clean, uninterrupted power helping to mitigate the risk of dropping the load.

Maintenance free. No active maintenance require. Just charge and discharge

Recharge CleanGen - without disconnecting. CleanGen can be daisy chained indefinitely providing power to recharge the main battery, provide power to the load, or both.





CleanGen vs. Diesel Generator Summary

DIESEL GENERATOR	CLEANGEN	
Significant CO, emissions	I No operational CO, emissions	
Maintenance every 250-1000 hours	No active maintenance	
Long cable runs due to noise/vibration	Short cable runs	
Operates best at higher loads (avoid wet stacking)	Can operate at any load with similar efficency without degradation	
Bring fuel to generator	Take CleanGen to recharge station	
Variable power quality	Clean power free of distortion	
Challenges with high 3 phase imbalanced loads	Supports 100% imbalanced loads	
Operationally high cost per kW	Operationally low cost per kW	



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CLEANGEN™J250

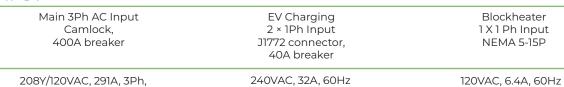
100kVA/250kWh

Industry standard footprint No maintenance Quiet, clean, and unobtrusive

5 wire, 60Hz

Specifications

INPUT



CLEANGEN J250

OUTPUT					
Inverter Output 100kVA, 0.8 PF					
1 X 3Ph Out Camlock, 400A breaker	2 X 3Ph Out Camlock, 225A breaker	3 X 1Ph Out Joy connector, 60A breaker	3 X 1Ph Out NEMA 5-20R		
208Y/120VAC, 278A, 5 wire	208Y/120VAC, 180A 3Ph, 5 wire	120VAC, 48A	120VAC, 20A, 1.9kV		
INVERTER					
Output	Continuous output: 100kVA, 0.8 PF				
Overload Capbility	144kW for 60 seconds				
Instantaneous	~192kW for 200msec				
BATTERY					
Capacity	250kWh				
Туре	Lithium Iron Phosphate (LiFePO4)				
Battery Monitoring	Individual string: voltage and current; Cell voltage cell balancing, cell temperatures				
Battery Cycles	Up to 5000 (depends on temp., depth of discharge, and discharge rate)				
Estimated CleanGen Recharge Times (From 0%)	House Power (Connected with Camlocks, 208v 3 phase source): 7 Hours Diesel Generator (38kw at 208v): 7 hours Two Level Two Chargers: 22 Hours				
ENVIRONMENTAL	· ·				
Acoustic Noise Level at 1 Meter	55.0 dB				
Relative Humidity	0 to 95%, non-condensing				
Operating Temp	0 to 40 °C				
MEASUREMENTS					
With Trailer	L 194 1/2 (4939.8) H 115 3/16 (2925.1) W 93 (2361.7)				
Without Trailer	L 102 1/4 (2597.2) H 88 13/16 (2255.2) W 52 (1320.8)				

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