



ZEGENSET

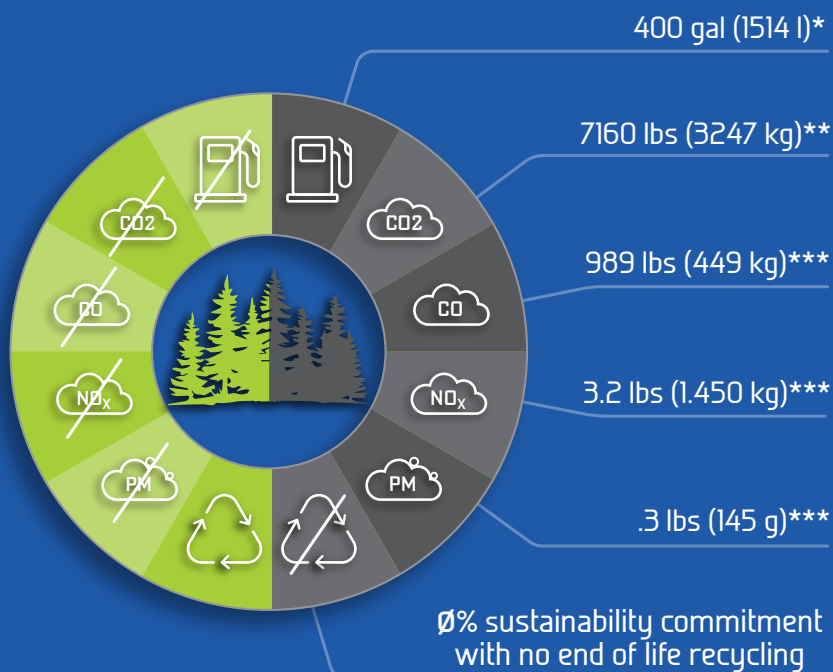
Li-ion Power for Refrigerated Containers

ENVIRONMENTAL IMPACT

1000 HOURS EMISSIONS CHART | 1000 HOURS OPERATING PERIOD OF 1 GENSET

ZEGENSET

DIESEL GENSET



* Based on .4 gallon/hr over 1000 hour period
** Based on US Energy Information data, B20 Diesel

*** Based on California emissions standards allowable limits
FTP/RMC Standards for 29 HP Tier 4 Engine

THE ZEGENSET DIFFERENCE

SMART MONITORING

Integrated IoT capabilities allow real-time tracking and diagnostics, enhancing maintenance efficiency and system uptime.

QUIET OPERATION

Significantly quieter than diesel gensets, reducing noise pollution and enhancing operational environment.

INCREASED THROUGHPUT

Fast Pre-trip inspection and reduced maintenance can result in more containers shipped.

END-OF-LIFE RECYCLING

All ZeGenSets can be recycled, allowing for the possibility of 2nd and 3rd life of lithium cells in other energy storage applications.

TECHNICAL DATA

Product Type	ZG190N	ZG107N-LV	ZG189N-LV	ZG171N-LV	ZG177B-LV	ZG159B-LV
Type	Clip-On				Undermount	
Battery Technology	Lithium NMC					
Voltage Type	High	Low				
Voltage	401.5	40.15				
Run-time (hours)*	17-35	20-42	17-35	14-28	15-30	11-23
kWh	89.13	106.92	89.1	71.28	77.22	59.4
Charging						
Lithium Charger	Bi-Directional Charger	IEB All in One Dual Hybrid Charger				
Charge Power	Max 22 kW					
Charge Inlet Standard	480/400V 3~AC CEE 32A 4 pol 50/60Hz					
Charge Inlet Options	Optional 120V or 240V Add-On For Low Voltage Charging					
Discharge Power	Max 22 kW					
Discharge outlet	N/A	400V 3~AC CEE17-3h 32A 4 pol 50/60Hz				
Recharge Time (Hrs) Idle **	3.6	4.36	3.6	2.86	3.13	2.4
Recharge Time (Hrs) In Use **	4.44	5.33	4.44	3.55	3.83	2.94
Cooling	Water cooled with integrated radiator					
Heater Package Option	N/A	Optional Heater Package for below -32F or 0C Ambient Environments				
Size						
Dimensions	L 92.13"x W 26.96" x H 44.49" L 234.01cm x W 68.48cm x H 113.00cm		L 93.8"x W 23.22" x H 44.45" L 238.25cm x W 58.98cm x H 112.90cm		L 59.05" x W 59.05" x H 19.69" L 149.99cm x W 149.99cm x H 50.01cm	
Weight (lbs/kg)	~3,300/1,496	~3,195/1,449	~2,980/1,352	~2,738/1,242	~2,998/1,360	~2,866/1,299
Mounting	Header pin (optional Clamp-style)				Standard chassis clamp	
Ingress Protection	54***					
Display						
Status Display	Live Systems Data					
Remote Capabilities						
IOT	IOT with Performance Metrics, GPS Monitoring, Live Systems Data					
IOT Integration	Optional API integration available					
QR Code	QR code on unit for local live systems data					
Lifetime						
Warranty	3 Years/10,000 Hours					
Cell Life Cycle	40,000 Hours					
End-Of Life Recycling	All ZeGenSets can be recycled					

* Hours depending on refrigeration temperature settings. Run time range calculated between 4.5 Kw average energy consumption on a fully loaded container with deep freeze products on a 85F/30C ambient day and 2.28kw average energy consumption on a chilled container on a 85F/30C ambient temperature day. Optional Heater Package may reduce runtime.

**Recharge time calculated using 480V3~AC input, optional 120V or 220V charge ports will increase recharge time

***Certification Pending

*PATENT & TRADEMARK PENDING

MODELS

ZEGENSET
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CLIP-ON



UNDERMOUNT



GLOBAL SUPPORT & MANUFACTURING

 **30+** Years Experience in the Battery Market |  **9** GWh Capacity |  **3** Battery Technologies |  **\$ 1.08 B** Revenue in 2024 |  **PRESENCE** in 4 continents and 14 countries. | **36** Facilities Worldwide |  **3,650** Employees Worldwide |  **5 R&D** Hubs

SUNLIGHT
POWER IS KNOWLEDGE

TRIATHLON
GROUP

INTERNATIONAL LOCATIONS & PARTNER NETWORK

