GreenVoltage

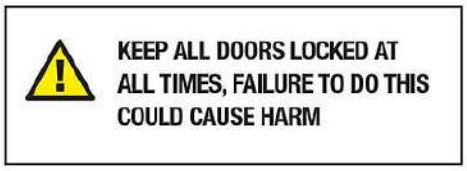
RAPID CHARGE CYCLE
SILENT OPERATION
COMPLETELY EMISSION FREE
RELIABLE PERFORMANCE
COMPACT, PORTABLE DESIGN



Lithium Ion Phosphate: 45kVA Rated Power 100kW Capacity

PLEASE NOTE: ***ONLY*** authorised engineers can set-up and adjust this equipment. Please contact Green Voltage for any questions.







ULTIMATE FLEXIBILITY: Store energy in many combinations



DATA SHEET EGEN 45/100k

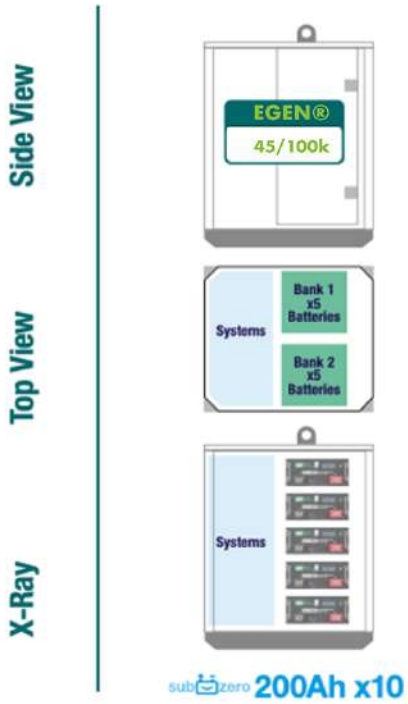
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subzero

LiFe Po4 Lithium Long Life Cycle Batteries





datasheet

STORAGE	Battery Type	Lithium Iron Phosphate
	Capacity @ 25°C	100 kWh
	Number of Cycles	Up to 5000
	Charge Time* (avg hours based on input)	4
OUTPUT	AC Output Voltage	3 Phase 415 V
		Single Phase 240 V
	Frequency Hz	50 Hz
	Output Connections	1 x 63 A (3 Phase)
		1 x 32 A (3 Phase)
		2 x 63 A (Single Phase)
		3 x 32 A (Single Phase)
		2 x 16 A (Single Phase)
		Powerlock 3P + N + Earth
	Continuous Sustainable Power	45 kVA
	Sustainable Rated Power	
	Max Feed Through Current (Bypass)	400 A 3 Phase
INPUT	Max Input (Grid/Generator)	400 A 3 Phase
	Input Connection (Grid/Generator)	1x 63 A (3 phase)
		Powerlock 3P + N + Earth
	Input Voltage Range	187 - 265 VAC
	Input Frequency	45 - 65 Hz
	Max Feed Through Current (Bypass)	400 Amp 3 Phase
CONTROL	System Control	Victron
	Soft start timer	24/7 manually operated timer with soft start functionality to prevent overloading
	Generator Autosmart	Plug N Play HVO generator input with automatic Start/Stop
ENVIRONMENTAL	Operating Range	Temperature range: -20°C to +45°C Humidity (non-condensing): max 95%.
MECHANICAL	Dimensions (mm) Approx without trolley	1600(L) x 1200(W) x 2000(H)
	Dimensions (mm) Approx with trolley	4000(L) x 1900(W) x 2600(H)
	Weight (kg) Approx without trolley	2000 kg
	Weight (kg) Approx with trolley	2440 kg
	Lift Points	Fork lift pockets + Top lifting gear attachment

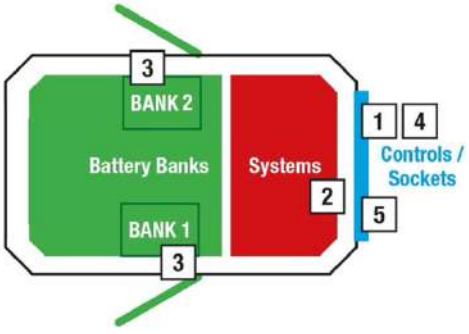
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System setup - Battery Pod



DATA SHEET E⚡GEN 45/100k

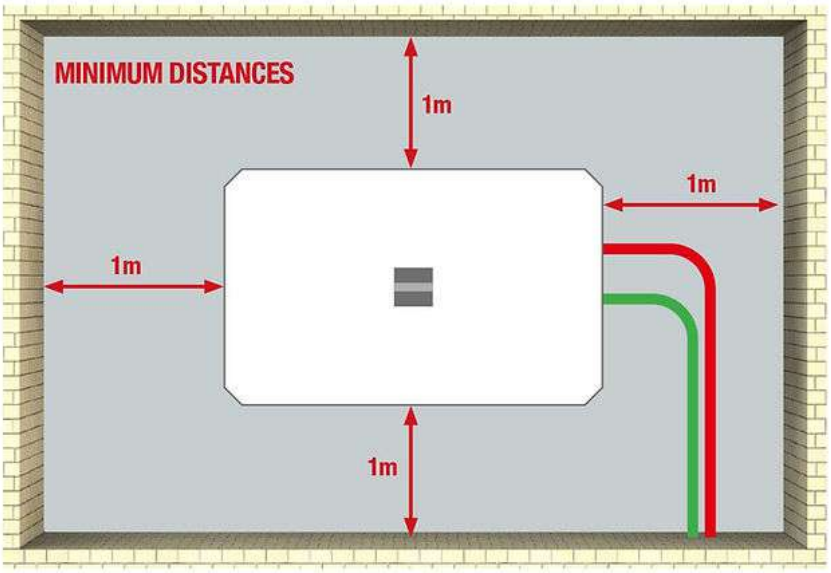
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DATA SHEET E4GEN 45/100k

Cabin positioning

Make sure these checks are carried out.



HOT!

CORRECT POSITIONING

Failure to position the unit as per the above picture can cause damage.
Ensure connected cables have enough room to bend naturally without stress to the sockets.

IS THE GROUND LEVEL?

Always choose a level ground to position your unit.

WHAT IS THE GROUND CONDITION?

Soft wet muddy ground is not a good base to position the unit.
Best positioned on concrete, asphalt or any hard surface.

IS IT A SAFE & LEGAL LOCATION?

Never position the cabin with the doors facing out into a road. Can you legally position here? Always get permission if on private land.

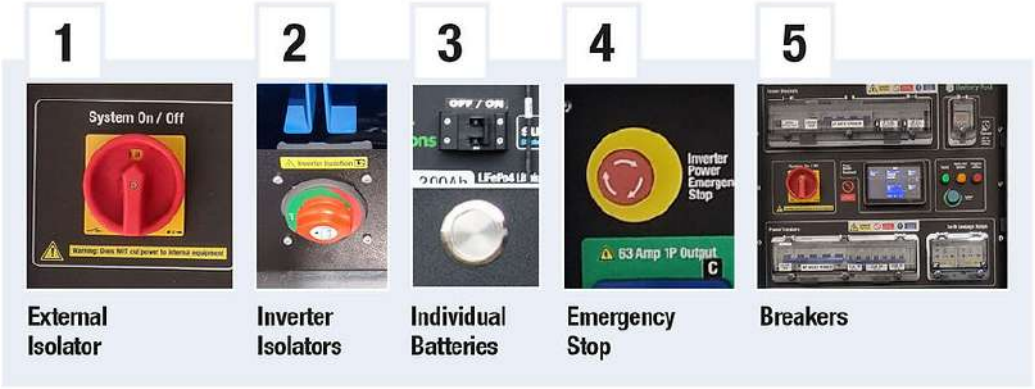
Soft Start System

On startup

Gen signal is sent to run gen (if connected).
Inverters turn on after booting up.
At the end of booting up, the generator stops (if no charge needed), the inverters stay on.

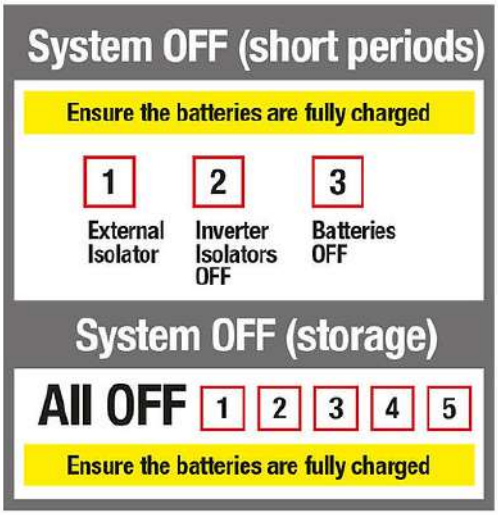
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Starting the E-Gen 45/100k:

1. Switch ON all battery round metal switches (3) by pressing them firmly. Indicator lights will illuminate, displaying remaining capacity for each of the 10 modules.
2. Activate each battery breaker to the ON position (3).
3. Turn on the 3 Inverter Isolators (2)
4. Set the main rotary switch (system on/off) to ON (1). If connected, the HVO generator may momentarily activate during system boot-up.

Wait until the control panel display activates, indicating the current operational status of the system.

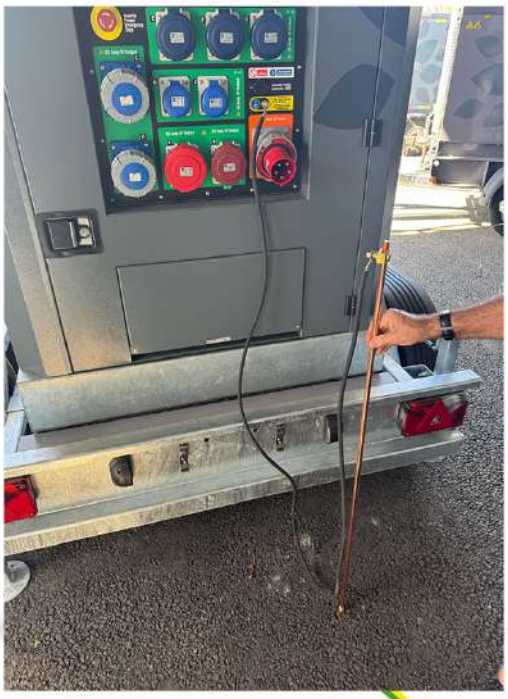
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Unit safety - Earthing

The nut and ground terminal should always be used to connect to a suitable ground.



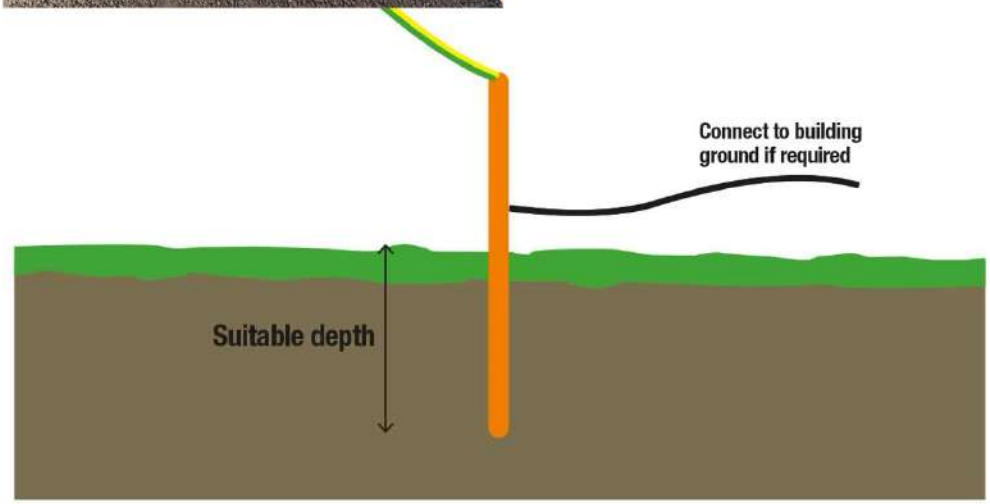
DANGER

ALWAYS make sure that electrical circuits are properly grounded to a suitable earth ground (ground rod) before operating. Severe injury of death by electrocution can result from operating ungrounded.

NEVER use gas piping as an electrical ground.

IT IS THE RESPONSIBILITY OF THE END USER TO PROPERLY EARTH THIS UNIT

The following is ONLY to be carried out be a trained competent person



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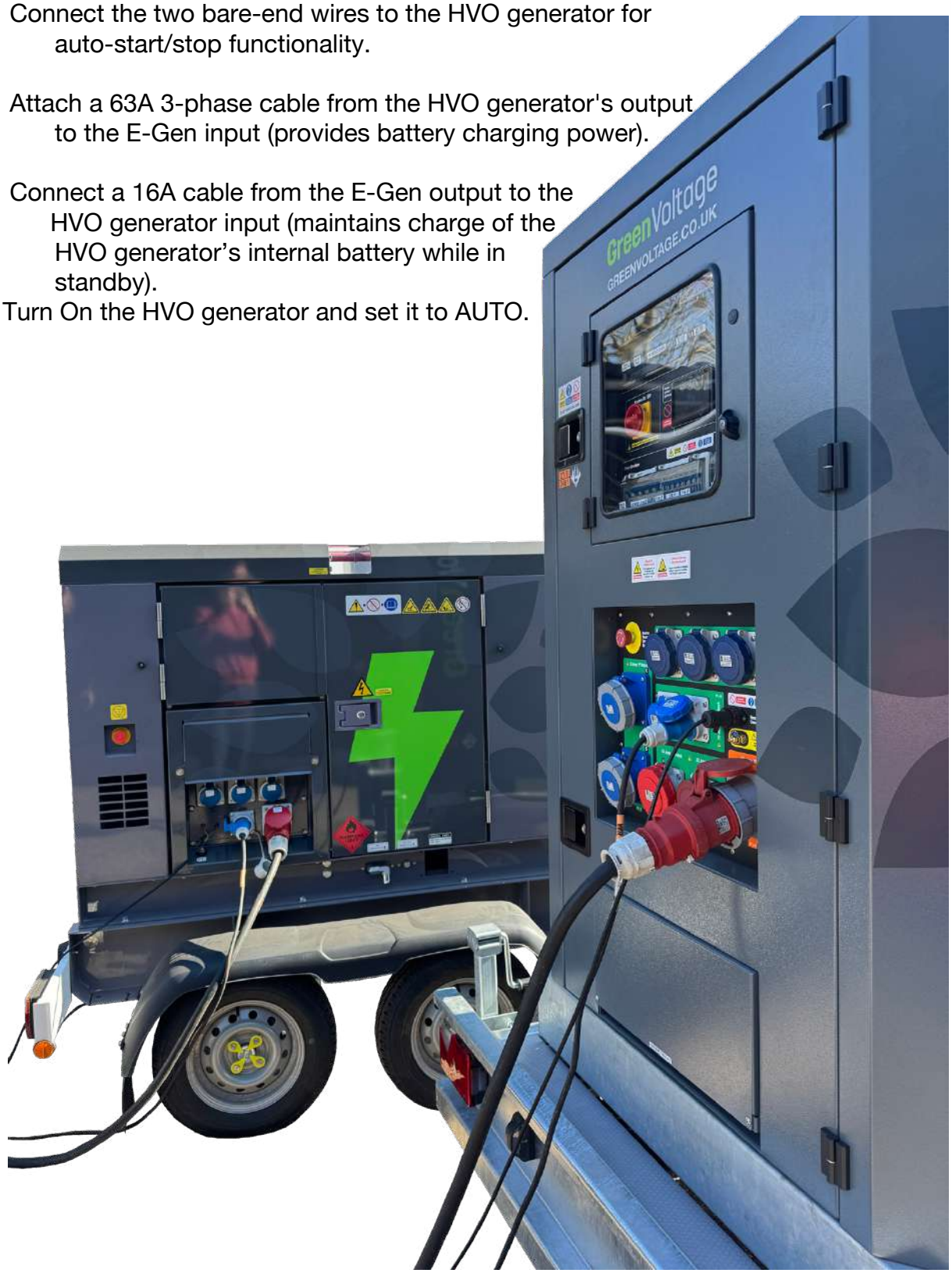
Setting Up the E-Gen in **Hybrid Configuration** with the HVO Generator:

1. Connect the 7-pin circular connector securely to the battery unit.

2. Connect the two bare-end wires to the HVO generator for auto-start/stop functionality.

3. Attach a 63A 3-phase cable from the HVO generator's output to the E-Gen input (provides battery charging power).

4. Connect a 16A cable from the E-Gen output to the HVO generator input (maintains charge of the HVO generator's internal battery while in standby).
5. Turn On the HVO generator and set it to AUTO.



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40K HVO GENERATOR

37 kVA
1500 RPM
230/415V
50 Hz



STAGE V EMISSIONS COMPLIANT

52dB | 50Hz | 1500 RPM | 3~ | 230/415V

Sound pressure at 7mtr

Measurements and Weight

	Length (L) [mm]	Width (W) [mm]	Height (H) [mm]	Dry Weight [kg]	Fuel tank [L]	Wet Weight [kg]
	3900	1800	1900	1770	170	1940

General Specifications

Revolutions [rpm]	1500
Voltage(s) [V]	230/415
Frequency [Hz]	50
Power Factor	0.8

Power

	Prime Power	Standby Power
Power in kVA*	37	40.7
Power in KW	29.6	32.6

*kVA (Kilovolt-ampere): The most common unit for measuring the power of a generator. 1 kVA is equivalent to approximately 0.8 kilowatts power.

Sockets

Quantity	Type	AMPS	Votage
3	2P+E	32A	230V
1	3P+N+E	63A	415V

Emissions certificate

This model complies with the European Regulation 2016/1628 NRMM on StageV gas emissions.

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Green Voltage Limited
0800 292 2251
info@greenvoltage.co.uk
greenvoltage.co.uk
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