



A true alternative to traditional generators, our **E²GEN** power solutions are amongst the most robust, reliable, portable battery power systems available.



Battery powered systems for a new generation

Green Voltage are market leading providers of mobile power and support to the film, television, broadcast and live event industries. Created specifically to address the demand for environmentally conscious solutions, our clean, silent, generators deliver safe, reliable power to productions of all size and genre.

Completely emissions free, our range of EGEN units have a proven track record in powering all areas of the production industry. Perfectly suited for all manner of applications, Green Voltage is the ideal energy solution for lighting, electrical and camera units - or any other department, whether working in the studio, live venue or the most extreme locations.

Quick and convenient, with rapid charge times, our range includes the world's fastest charging mobile power stations. Units are available in a choice of storage options, including 2kW, 5kW, right up to the impressive 20k - 60/80/100kW variants.

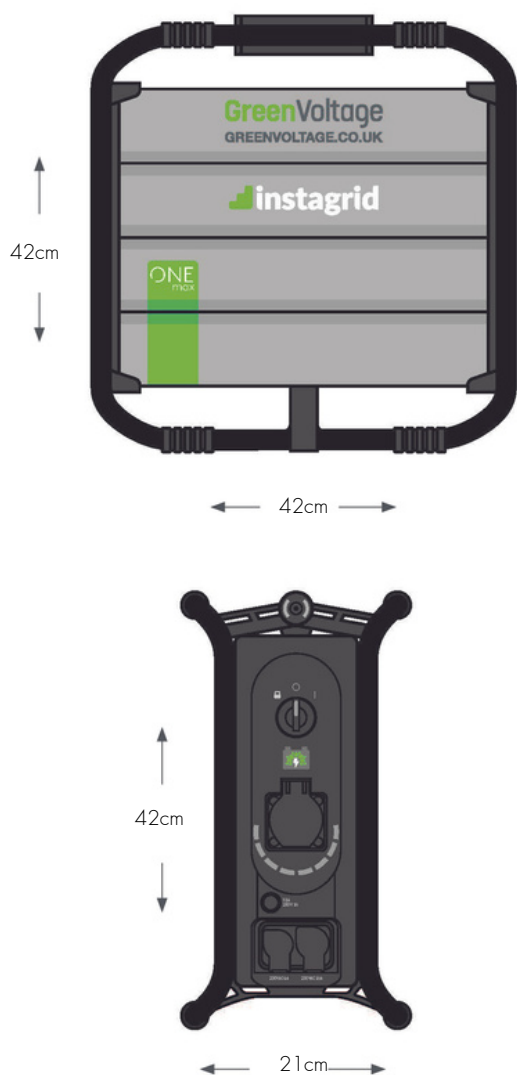
For added flexibility, the intuitive 'plug and play' design allows the system to be easily linked for extended operating times on the majority of our units. Delivering instant, robust power, even in the most demanding environments, Green Voltage E GENs are ideal as a primary, back up or UPS source. With their rugged design, no moving parts (aside from a small fan), IP54 rating and wireless monitoring capabilities, we have you covered in almost any situation.

greenvoltage.co.uk

DATA SHEET GREEN VOLTAGE EGEN

Instagrid ONE Max 2kW

NEW!



RATED OUTPUT

3600w continuous
Strike Peak up to 9000w
230v AC/50h

AC OUTPUT

13a Fixed Socket
16a Adaptor

AC CHARGING

13a or 16a adaptor
Pulling 12amps
Recharge time 0-100 2.5hours

WEIGHT

20 kg

MEASUREMENTS

420x210x420mm including frame

CONTROLS

Single switch on, off or charge
illuminated Battery level display

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GreenVoltage

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

VOLTstack® 2k 230V



RATED OUTPUT

4.8 kW Pure Sine Wave Inverter, Clean Power
(Surge rating: 5.8 kW 3 sec, 7 kW peak)

AC OUTPUT

Single Phase 230V @ 20 Amp

AC CHARGING

1 x 220 - 240VAC 16 Amp Inlet
Recharge time @12 Amps - under 2.5 hours from
0-100%Recharge using a domestic 13 Amp socket
(adaptor required) Can be charged whilst in operation

OPERATING CONDITIONS

Operating temperature: -20°C up to 50°C

WEIGHT

150 kg

CARBON OFFSET EQUIVALENT

Offsets 20kg of CO₂e for 8 hours operation

DC CHARGING

Input: SUNstack™ solar panel and cable
Max Operating Input Voltage PV: 150 VDC
Max Input Short Circuit Current: 30 Amps DC

SAFETY

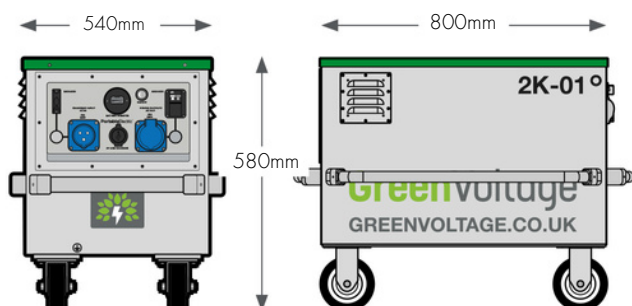
Non-Combustible Aluminium Enclosure
Recommended storage temperature: 10°C – 30°C

STORAGE

5.6kWh (5kWh usable)
Battery Type: Lithium-Ion

OUTLETS

2 x 230VAC 16 Amp Outlets or 1x 16 Amp and 1x 32 Amp
Outlet 2 x 15 Amp Circuits (20 Amp Combined Max)
2 x 5 VDC USB Outlets



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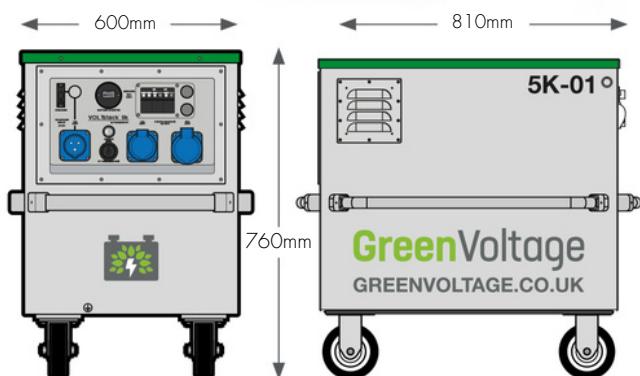
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DATA SHEET EGEN VOLTSTACK 2k

VOLTstack® 5k

230V



RATED OUTPUT

4.8 kW Pure Sine Wave Inverter, Clean Power
(Surge rating: 5.8 kW 3 sec, 7 kW peak)

AC OUTPUT

Single Phase 230V @ 20 Amp

AC CHARGING

1 x 220 - 240VAC 16 Amp Inlet
Recharge time @12 Amps - under 2.5 hours from 0-100%
Recharge using a domestic 13 Amp socket (adaptor required) Can be charged whilst in operation

OPERATING CONDITIONS

Operating temperature: -20°C up to 50°C

WEIGHT

150 kg

CARBON OFFSET EQUIVALENT

Offsets 20kg of CO₂e for 8 hours operation

DC CHARGING

Input: SUNstack™ solar panel and cable
Max Operating Input Voltage PV: 150 VDC
Max Input Short Circuit Current: 30 Amps DC

SAFETY

Non-Combustible Aluminium Enclosure
Recommended storage temperature: 10°C - 30°C

STORAGE

5.6kWh (5kWh usable)
Battery Type: Lithium-Ion
OUTLETS
2 x 230VAC 16 Amp Outlets or 1x 16 Amp and 1x 32 Amp
Outlet 2 x 15 Amp Circuits (20 Amp Combined Max)
2 x 5 VDC USB Outlets

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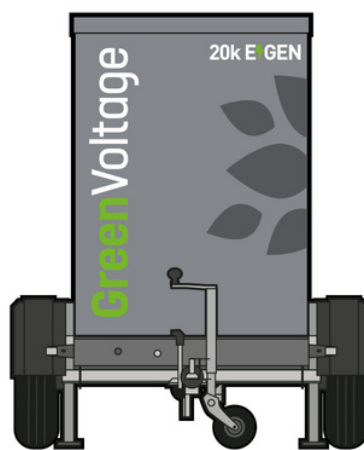
GreenVoltage

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

EGEN20K® 60/80/100kWh

230V

NEW!



RATED OUTPUT

20.7kW Pure Sine Wave Inverter, Clean Power
(surge rating: 24kW)

AC OUTPUT

63a 1phs / 125a 1phs
24kW maximum (3 phase available upon request)

CHARGING

63a 1phs / 25a 1phs (three Phase on request)
Recharge in 3 hours

Charging options:

32a 1phs (8 hours from 0)
63a 1phs (4.5 hours from 0)
125a 1phs (2.5 hours from 0)
3 phase charging available upon request

STORAGE

60kWh / 80kWh / 100kWh Options available
Battery Type: Lithium-Ion Phosphate Additional
storage optional

OPERATING CONDITIONS

Operating temperature: -20°C up to 40°C

WEIGHT

1200kg / 1500kg / 1800kg

MEASUREMENTS

Measurements on request

SAFETY

Non-Combustible Aluminium Enclosure
Recommended storage temperature: 10°C - 30°C
Brake assisted trailers

HYBRID AUTO START MODE

Switching off the generator, during low load periods, can
help maximise operational efficiency, offering a potential
saving of 215kg carbon a day, 1.5ton per week

CARBON OFFSET EQUIV ALENT

Offsets 160kg of CO₂e for 8 hours operation

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DATA SHEET EGEN20K



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

ENERGY PROFILE and SAVINGS

The energy profile shown here details demand vs input from E (figure 1), plus the state of charge of the EGEN (figure 2).

In this scenario, use of the E GEN results in the generator being required to run for just 3.5hrs, in order to supply the energy required (in this example, 81kWh). As ideal generator loads are around 80%, in using a 24kW E GEN, we can recommend downscaling the generator size, provided that the battery can cope. In this instance, the most efficient set-up would be a 40kVA generator.

DIESEL AND EMISSION SAVINGS PER DAY

Savings are primarily a result of the increase in generator efficiency.

The results are solely from switching from a generator on 10% load with a fluctuating profile, where the total efficiency* would be around 15%, to a generator running on a constant 60%-80% load setting, with a much improved total efficiency of around 30%.

FORCASTED SAVINGS PER DAY

cCO₂ (kg) **93**
Diesel (litres) **27**
PM (gr) **3.24**
NO_x (gr) **31.32**

CARBON OFFSET EQUIVALENT

E GEN 20k 60kg of CO₂e for 8 hours operation
VOLTstack 5k 20kg of CO₂e for 8 hours operation
VOLTstack 2 10kg of CO₂e for 8 hours operation

*total efficiency is the efficiency of how many kWh output you have vs the chemical energy content of a liter of diesel in kWh

figure 1 POWER PROFILE (kW)

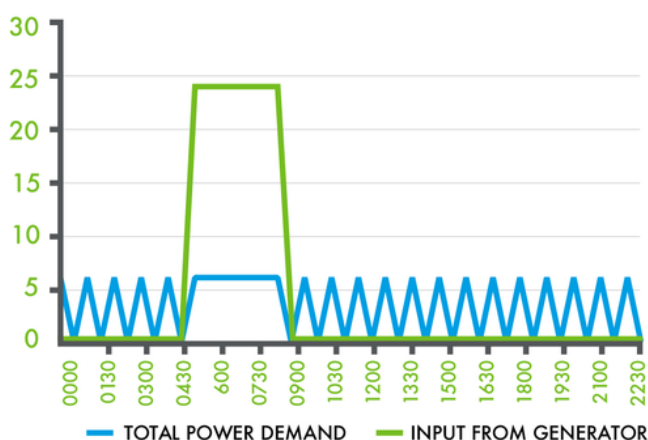
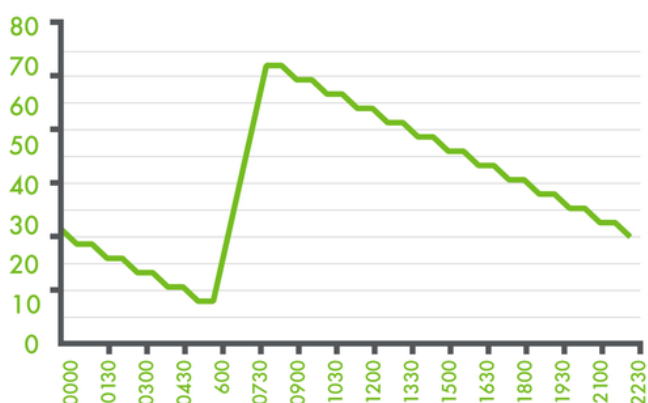


figure 2 STATE OF CHARGE (kWh)



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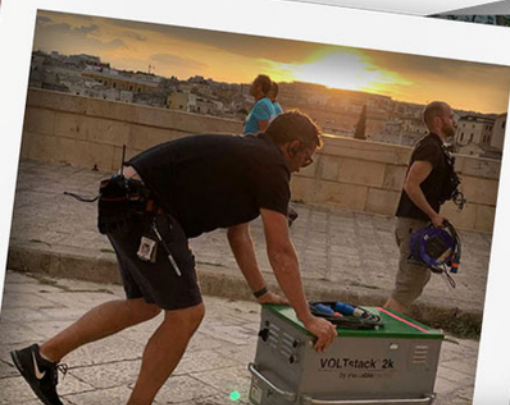


GreenVoltage

MOVIES
COMMERCIALS
BROADCAST
LIVE EVENT
EXHIBITION



Take us anywhere!



DATA SHEET GREEN VOLTAGE EGEN