

# REBELVOLT

Replacing diesel generators  
with big batteries



# Time for big batteries – e-Generators

## Powerful

Delivers up to 100kW continuous power.  
15kWh – 200kWh for multi-day operations.

## Eco-friendly

Replaces noisy and polluting diesel generators with clean and safe battery power.

Zero emissions, minimal noise, no heat, and eco-friendly operation.

## Arctic engineering

Dependable operation in  $-35^{\circ}\text{C}$  with proprietary heating/cooling tech (patent pending).

Built in Finland with a focus on resilience, reliability and performance.

## Saves money

Break-even in 1–3 years, with leasing options available making it **better from day 0**.



Can be used like  
diesel generators

# Rebelvolt – e-Generator Products

- We deliver dual-use **e-Generators** for demanding environments and use cases
- Rebelvolt e-Generators replace or work with diesel generators delivering significant benefits

### Container



### Trailer



### Pallet



### Portable



- For powering equipment in the container
- 50-200+ kWh modular capacity
- 400VAC/63A, 230VAC/16A
- Fast charging (Q2/26)
- Smart display
- System remote monitoring

- For demanding off-road use
- 50 - 200 kWh modular capacity
- 400VAC/63A, 230VAC/16A
- Fast charging (Q2/26)
- Smart display
- System remote monitoring

- For larger portable needs
- 50 - 200 kWh modular capacity
- 400VAC/63A, 230VAC/16A
- Fast charging (Q2/26)
- Smart display
- System remote monitoring

- For smaller portable needs
- 5 - 15 kWh modular capacity
- 400VAC/16A, 230VAC/16A
- Smart display
- System remote monitoring

# Technical specifications.

## Rebelvolt e-Generators - technical specifications for **trailer-model**

Nominal output power: 24-240kW  
Peak output power (10s): 48-500kW  
Output voltage: 400VAC  
Output frequency: 50Hz Sine Wave, 63A  
Output fuse(s): 16A, 32A & 63A\*  
Connection point: Power socket,  
5-wire EU, 63A

Nominal input power: 24-260kW  
Input voltage: 400VAC  
Input frequency: 50Hz sine wave  
Input fuse(s): 63A  
Connection point: Power plug,  
5-wire EU, up to

63A

Battery type: LFP/LiFeP04  
Standardized voltage: 48V  
Operation voltage: 48...600VDC\*  
Nominal capacity: 50 to 400kWh  
Recommended depth  
of discharge: SoC 80%  
Lifetime: Up to 8000 cycle.  
in 50% SoC  
discharge depth

Charging time (SOC 80%): 63A plug, < 8.5 hours  
32A plug. < 10 hours  
16A plug. < 19 hours  
Weight: 750 - 3500 kg  
Body dimensions: W1850 L3702 H1520  
Operation temperature: -35...60 °C (outside)  
Store/off: -35...60°C (outside)  
Charging temperature: 0...60 °C (inside cabin)

Battery Certificates: EMC, RoHS, CoC/DoC,  
GBT 36276-2018  
GPT 19001-2016/ISO9001:2015,  
ISO14001:2015

BMS Certificates: EMC, RoHS, CoC/DoC, GBT 36276-  
2018 GPT 19001-  
2016/ISO9001:2015

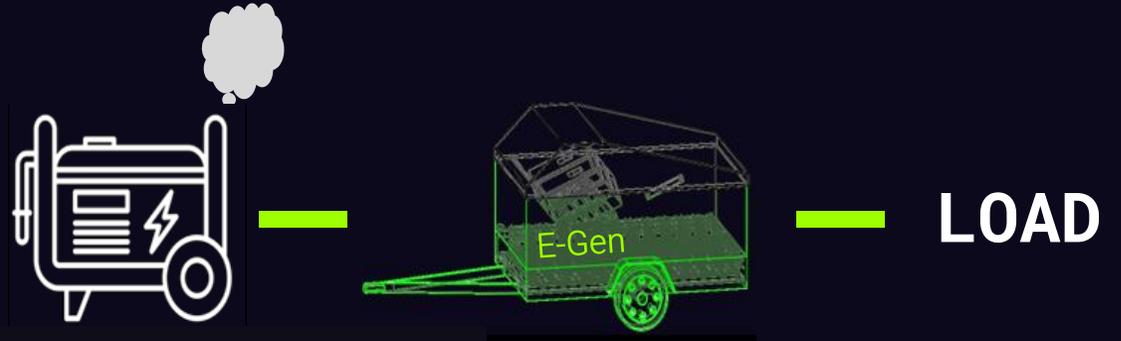
Inverter Certificates: EMC, RoHS, CoC/DoC, LVD  
Other Certificates: CE

Energy meter: Watts/voltages/amps  
Bluetooth app: Battery level and states  
Tyres: Summer and winter tyres  
Brake: Brake trailer for <750kg weight

\* marked items have special dependencies

# One month test results with a diesel generator

Done in 2024 with a Finnish rental company, by charging the e-Generator with a diesel generator.



Diesel Engine Usage

**-540h/month**

~720h/month ~23.8h/day



~180h/month ~8.0h/day



Diesel Usage

**-2040  
ltr/month  
(70%)**

**-3200€/month**  
(~1.60€/ltr)



Noise  
Pollution

**-18h/day**

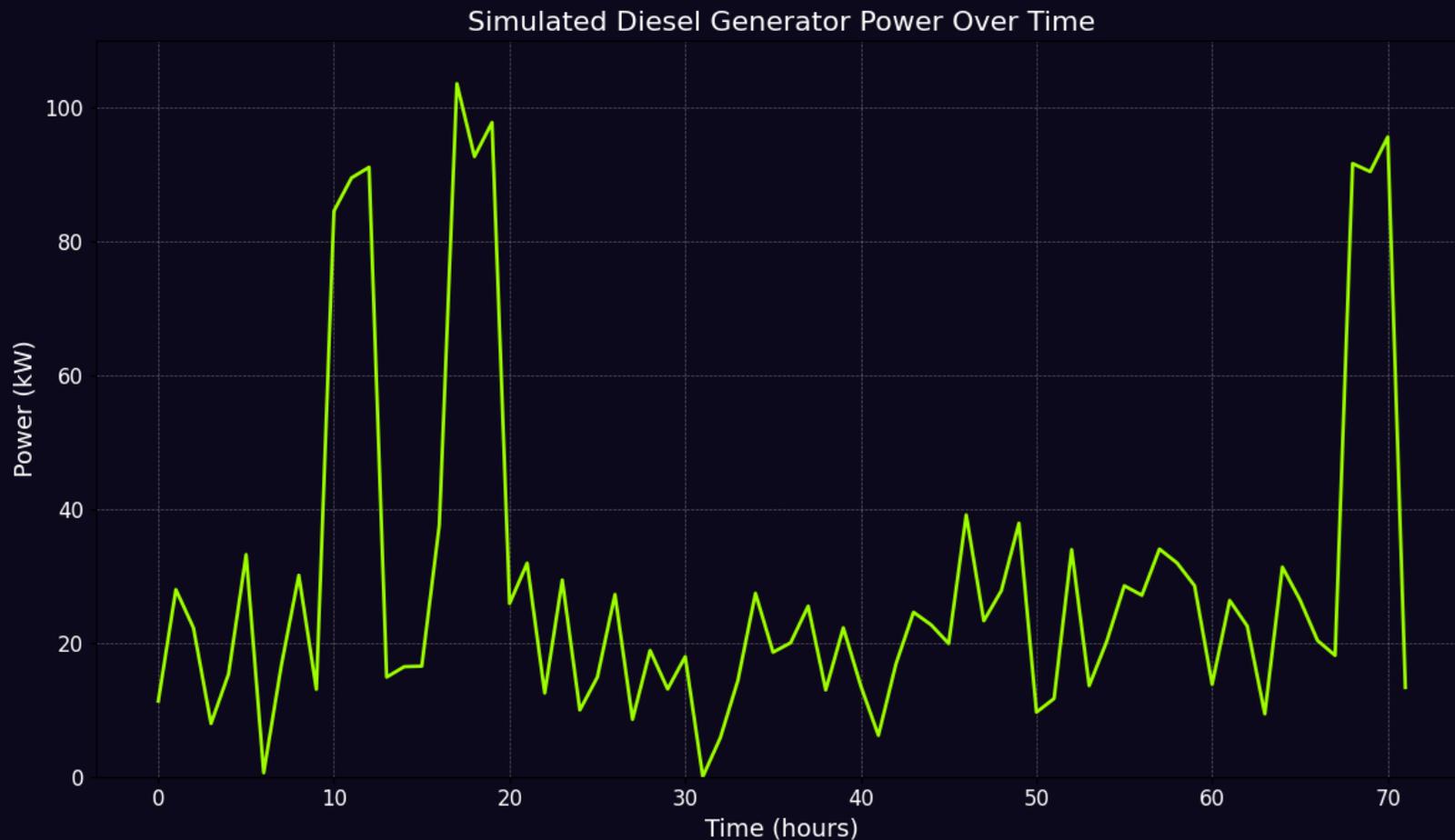


Diesel Maintenance

21 days → **62 days**

Average maintenance  
after 500h

# e-Gen makes diesel generators better

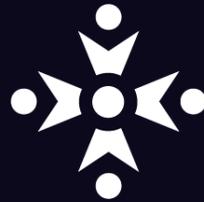


Occasional peak power needs (100kW) require customers to have a 100kW diesel generator on site, running inefficiently around 90% of time.

This generates extra costs, in both equipment & operations.

Combining diesel generators with e-Generators, can yield efficiency and savings of 30%.

# FREEWORLD



TW CONSULTING  
& TRADE LTD.

TW Consulting & Trade Ltd. (Malta)

Wolfgang Tweraser

CEO/President

Tel EU: +356 2701 9052 (office)

Tel EU: +356 9942 9829 (mobile)

Tel UAE: +971 50 209 3055

[wolfgang@twctmt.com](mailto:wolfgang@twctmt.com)

[www.twctmt.com](http://www.twctmt.com)