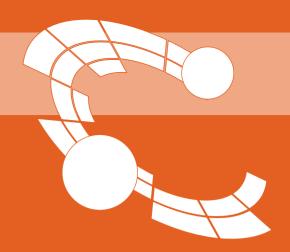


## Coulomb Energy Solutions B.V.



## AquaStroke:

THE REVOLUTIONARY GENERATOR



DRIVING A SUSTAINABLE FUTURE

FOR THE INVISIBLE FORCE
THAT POWERS
VISIBLE TRANSFORMATION

## Welcome to Coulomb Energy Solutions B.V.

Coulomb Energy Solutions B.V. with its headquarters in The Netherlands is a *sales organization* that focuses on the introduction of *innovative energy solutions* to the *European and African Markets*.

We proudly represent the future of alternative energy generation: the *AquaStroke Generator* invented by *MayMaan Research*, Florida in the U.S. From our base in The Netherlands, we serve as the exclusive *bridge between high-end American technology and Europe's energy transition*.

We believe in the power of collaboration, technological advancement, and taking responsibility.



## Our Partner: SPIE Netherlands

#### **Assembled with Excellence**

We closely partner with SPIE Netherlands, a *leading technical service provider*. Spie will take on the assembly, the installation, the service and maintenance of the *AquaStroke generators*.

This collaboration ensures technical precision, adherence to European standards, and a high-quality end product.

For the introduction and distribution of the AquaStroke Generators in the EU and African continent we work with our valued resellers. Please *reach out to us for the contact details.* 



## What is AquaStroke?

The AquaStroke Generator is a *revolutionary energy generator* developed by MayMaan Research in collaboration with *industry leaders* in motor engineering and manufacturing.

"Carbon free": the fuel consists of

## 70% water & 30% bio-alcohol.



#### Inside

The 35 kW AquaStroke Back-up generator delivers clean, reliable power using a redesigned 2.3 L engine and advanced alternator system.



#### **EXCEPTIONAL LOAD RESPONSIVENESS**

The generator runs on a hybrid fuel consisting of **70%** *water and* **30%** *bio-alcohol*, offering a powerful, sustainable, and cost-efficient alternative to traditional diesel generators.

Thanks to a *unique combustion process* optimizing the use of water and bio-alcohol, AquaStroke delivers exceptional performance with low emissions and high reliability.

The generators are **modular and versatile**—perfect for applications ranging from off-grid power supply to industrial **backup systems**.



## Healthcare & Hospitals



Power outages in hospitals are not an option.

Coulomb now delivers carbon-free, backup power systems—clean, quiet, and on a patented 70% water / 30% bio-alcohol engine. Protect lives, the planet, and your operational integrity.



### **Data Centers & IT**



Data centers need more than just uptime—they need green uptime. Our low-emission backup generators are built for mission-critical IT environments and ESG-conscious operators. Diesel is the past. Let's future-proof your power.



## **Industry & Manufacturing**



Remote plant? High energy load? Cut your fuel bills and emissions in one move. Coulomb's clean engine tech runs on water and bio-alcohol, delivering dependable power with an unbeatable TCO.



Mining, Oil & Gas



Fuel-heavy operations are under pressure to go green. We offer a heavy-duty alternative to diesel generators—safe, scalable and compliant with ESG standards. And yes, it works in the middle of nowhere.



**Public Sector & Utilities** 



Looking for sustainable solutions that meet procurement rules and reduce emissions?

Our mobile generator units offer clean, decentralized energy perfect for municipalities, emergency power, and utility grids.



## The AquaStroke Line-up

Today and as an initial market introduction the AquaStroke 20 kW and the AquaStroke 35 kW are available. Other and bigger capacities will be launched in the next 18 months. Examples are engines with a capacity of 500 kW, 300 kW and 120 kW.

MODEL	OUTPUT	AVAILABILITY	APPLICATION
Aquastroke 20 kW	20 kW	Available now	Small-scale use
Aquastroke 35 kW	35 kW	Available now	Backup/Emergency power
Aquastroke 500 kW	500 kW	Coming soon	Industrial applications
Aquastroke 300 kW	+120 kW	In process	Modular, hybrid deployment







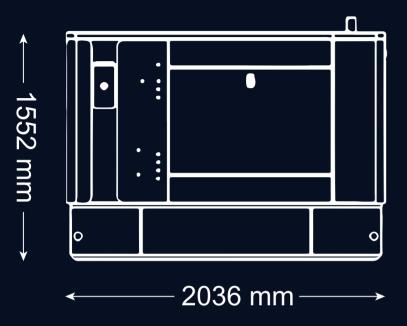


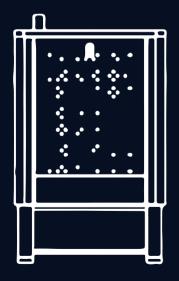


- 1—Decarbonized for ESG goals, cutting harmful emissions such as NOx and SOx to levels that are practically immeasurable.
- 2—Delivers high torque matching diesel performance 4—Save significantly on fuel and operating costs. without the emissions or fuel cost.
- ideal for urban or sensitive locations.

3—Built for Quiet Zones Lower noise and odor make it

## AS 35 kW Back-Up





←939 mm→

Specifications and design:

Specifications, and overall design may be modified without notice as production lines are setup, additional improvement to performance and efficiency may be added prior to production.

#### **GENERATOR SPECIFICATIONS**

Туре	Synchronous
Alternator Output Leads 1-fase	4 Wire
Alternator Output Leads 3-fase	12 Wire
Bearing	Single Sealed Bal
Coupling	Flexible Plate
Excitation System	Self

#### **VOLTAGE REGULATION**

Туре	Electronic
Sensing	Single fase
Regulation	+ - 1%

#### **GOVERNOR SPECIFICATIONS**

Туре	Electronic / ECU
Frequency Regulation	Isochronous

#### **ELECTRICAL SYSTEM**

Battery Charge Alternator	12V 60 Amp
System Voltage	12V
Recommend Battery (not included)	Group size 35

#### **ENCLOSURE**

Weather protective enclosure	Insulated
Powder coated aluminum	Blue / White

#### **ENGINE SPECIFICATION**

ENGINE OF EOIL TOATTON	
Make	MMFF
Model	AS 2,3
Cylinders	4
Bore	83,6 mm
Stroke	102 mm
Comression Ratio	13,5 : 01
Intake Type	Turbo Charged
Displacement	2.3 L4
Valves Per Cylinder	4

#### **ALTERNATOR OPTIONS**

Phases	1 or 3
Voltage Output	120 / 240V
Engine speed / Frequency	1500 RPM / 50Hz

#### **CONTROLLER OPTIONS**

Deep Sea	DS7320 / 7420
ComAp / Paraleling	IG 500

#### SOUND OUTPUT

During full load operation	63dB(A)
Sound levels are measured at 7 meters	

#### **FUEL TANK CAPACITY OPTIONS**

Premixed	285 Liter
Not Mixed (ethanol with water supply)	285 Liter
Larger size can be customized	

#### **FUEL CONSUMPTION (premix)**

1/4 load	24 LPH
1/2 load	33 LPH
3/4 load	47 LPH
Full load	59 LPH

#### MAXIMUM POWER OUTPUT

Back-up	35 kW
Prime Power	30 kW

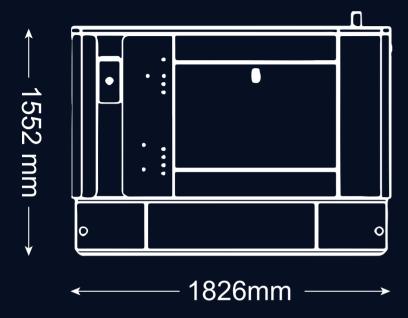
#### **GENERATOR WEIGHT**

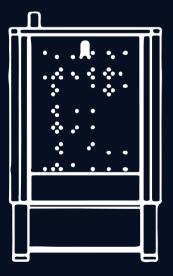
Without fuel	820 Kg

#### Certification:

Products mentioned herein are currently undergoing CE certification processes.

## AS 20 kW Back-Up





**←** 939mm→

Specifications and design:

Specifications, and overall design may be modified without notice as production lines are setup, additional improvement to performance and efficiency may be added prior to production.

#### **GENERATOR SPECIFICATIONS**

Туре	Synchronous
Alternator Output Leads 1-fase	4 Wire
Alternator Output Leads 3-fase	12 Wire
Bearing	Single Sealed Ball
Coupling	Flexible Plate
Excitation System	Self

#### **VOLTAGE REGULATION**

Туре	Electronic
Sensing	Single fase
Regulation	+ - 1%

#### **GOVERNOR SPECIFICATIONS**

Туре	Electronic / ECU
Frequency Regulation	Isochronous

#### **ELECTRICAL SYSTEM**

Battery Charge Alternator	12V 60 Amp
System Voltage	12V
Recommend Battery (not included)	Group size 35

#### **ENCLOSURE**

Weather protective enclosure	Insulated
Powder coated aluminum	Blue / White

#### **ENGINE SPECIFICATION**

Make	MMFF
Model	AS 2,0
Cylinders	4
Bore	83,6 mm
Stroke	89 mm
Comression Ratio	14,5:01
Intake Type	Naturally Aspirated
Displacement	2.0L4
Valves Per Cylinder	4

#### ALTERNATOR OPTIONS

Phases	1 or 3
Voltage Output	120 / 240V
Engine speed / Frequency	1500 RPM / 50Hz

#### **CONTROLLER OPTIONS**

Deep Sea	DS7320 / 7420
ComAp / Paraleling	IG 500

#### SOUND OUTPUT

During full load operation	63dB(A)
Sound levels are measured at 7 meters	

#### **FUEL TANK CAPACITY OPTIONS**

Premixed	230 Liter
Not Mixed (ethanol with water supply)	230 Liter
Larger size can be customized	

#### **FUEL CONSUMPTION (premix)**

1/4 load	13.8 LPH
1/2 load	18.7 LPH
3/4 load	26.7 LPH
Full load	34.7 LPH

#### **MAXIMUM POWER OUTPUT**

Back-up	20 kW
Prime Power	18 kW

#### **GENERATOR WEIGHT**

Nithout fuel	720 Kg

#### Certification:

Products mentioned herein are currently undergoing CE certification processes.

## Why Choose AquaStroke?

- 1 Up to 80% CO<sub>2</sub> reduction
- 2 Low fuel consumption
- Reliable in extreme conditions
- 4 Minimal maintenance requirements
- 5 No complex infrastructure needed
- 6 Compliant with EU emission standards

## **Contact Information**



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sales@coulomb-es.com





www.coulomb-es.com

## READY TO TAKE THE NEXT STEP IN CLEAN ENERGY?

Discover AquaStroke and experience the power of true innovation. Reach out today for a demo, consultation, or collaboration.

#### Sales

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