CEGASA

zinc-air catalogue

CEGASA. Industrial zinc-air batteries.

Discover the **highest energy density on the market**, backed by a global leader.



Made in Europe | Maximum battery life | No maintenance or monitoring required | Safety in extreme conditions

Energy you can trust

cegasa.com

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At CEGASA, we're powering a better future.

At CEGASA, we are **experts in the design, manufacture and sale of industrial batteries**. A trusted partner for tackling the increasingly complex challenges of the energy transition.

01. **10,000 m²** of facilities

02. **15% of the team** works in R&D

03. **100+ distributors** worldwide

04. **90+ years** of experience

05. **112 tonnes of CO_2 emissions avoided per year** thanks to our batteries

06. **100% recyclable** batteries

E/Z8 Zinc Air Alkaline

MADE IN EUROPE

Industrial zinc-air batteries: expertise you can rely on.

With a history spanning a century, CEGASA has spent more than 40 years developing **zinc-air energy storage solutions for applications** including electric fencing, alarm systems, railways, road and maritime signalling, smart cities, data collection and analysis, and cathodic protection.

We are now global leaders thanks to our strong capacity for innovation, and our products are **the best solution for low-power applications that require a very long service life, without the need for maintenance or monitoring**.

100% RELIABLE, CEGASA QUALITY

Manufactured in Spain under ISO 9001:2015 certification, our batteries comply with the standards that guarantee their use in safety-critical applications.

RESPECT FOR PEOPLE AND THE ENVIRONMENT.

Our batteries are 100% recyclable. Because fewer batteries are needed, they reduce the environmental impact of transport and waste generation. They contain non hazardous components, further reducing their environmental impact. Our ISO 14001:2015 and ISO 45001:2018 certifications reflect our commitment to environmental management and occupational health and safety.

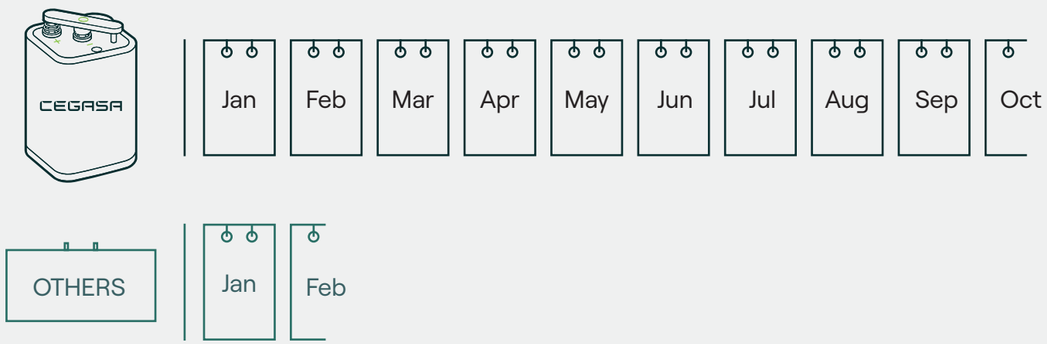
E/Z8 Zinc Air Alkaline

MADE IN EUROPE

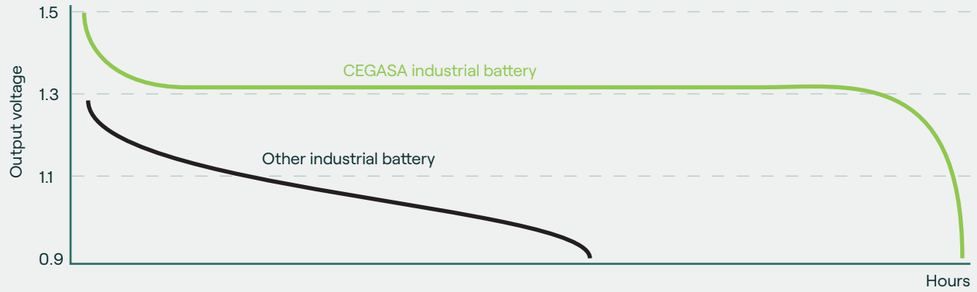
The advantages behind our market leadership.

Power that lasts the longest

The technology with the highest energy density on the market



Constant output voltage





Our batteries are the only ones that **guarantee a 2-year lifespan, even in extreme weather conditions**.

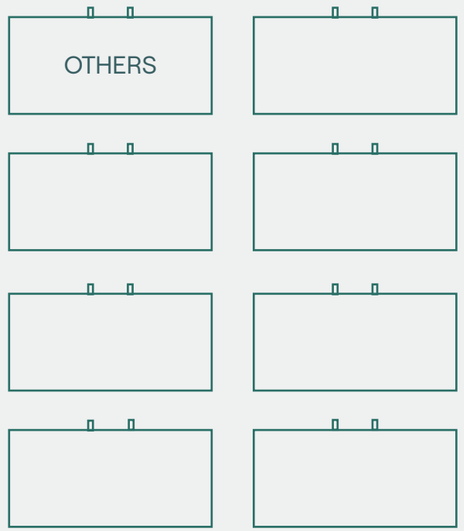
After	Self-discharge
1 year	5%
2 years	8%

Temperature range	-20 °C to 50 °C -4 °F to 122 °F
Humidity range	25–85% RH

Best value for money



=



45 Ah • 234 Wh
6 V (average voltage)

8x 7 Ah • 31 Wh
4.4 V (average voltage)



E/Z8 Zinc Air Alkaline

MADE IN EUROPE

Batteries
packed with benefits.

MAXIMUM BATTERY LIFE. THE HIGHEST ENERGY DENSITY ON THE MARKET.

Up to 5 times more energy in the same space and lasting up to 12 times longer. Our batteries provide a stable output voltage throughout the discharge cycle, making the most of the available energy. Their high stability makes them ideal for low-power applications requiring an ongoing and reliable supply over long periods, without the need for maintenance or supervision.

CONSTANT OUTPUT VOLTAGE = CONSTANT PERFORMANCE

Output voltage varies by less than 2% regardless of state of charge, so performance stays consistent and energy is used efficiently.

THE BEST COST-TO-ENERGY RATIO

Thanks to its high energy density, a single CEGASA battery can replace up to 12 conventional batteries (1:12 ratio), thereby reducing transport, storage and maintenance costs, as well as the recycling fee, by the same proportion.

NO INSTALLATION OR MAINTENANCE REQUIRED

Designed for fully autonomous, maintenance-free operation. Once its service life ends, replacing it with a new unit is quick and easy, with no need for specialist technical staff.

LEAK AND EXPLOSION PROTECTION

A solid-state aqueous battery that operates under atmospheric pressure and will not explode or deflagrate. Thanks to this technology, it is not subject to any special transport restrictions and complies with the international regulations for non-hazardous goods.

RELIABLE PERFORMANCE IN EXTREME CONDITIONS

Our batteries design and formulation ensure it will perform reliably under extreme temperature and humidity conditions, as well as under severe vibration. Furthermore, they are manufactured in Spain and have a supply chain that is 99% European, certified to ISO 9001, ISO 14001 and ISO 45001, which guarantees their suitability for safety-critical applications.

E/Z8 Zinc Air Alkaline

MADE IN EUROPE

Industrial zinc-air batteries for a wide range of applications.

Our wide range of products enables us to offer solutions tailored to different applications, using the most compact technology on the market.

Applications

Electric fencing	14
Alarms	16
Railways	18
Road traffic	20
Maritime traffic	22
Smart City	24
Data analytics	26
Telecommunications	28
Payment and self-service systems	30
Cathodic protection	32
Bespoke solutions	34

CATALOGO_ZINC_AIRE_2026_EN_AAFF.indd 12-13 29/10/26 19:08

E/Z8 Zinc Air Alkaline

Electric fencing

CEGASA's industrial zinc-air batteries provide reliable power to **keep electric fences operating around the clock**. Compared with systems using solar panels and lead-acid batteries, they offer a simpler solution with **lower maintenance costs and fewer potential points of failure**.

- Uninterrupted power 24 hours a day.
- Consistent electrification throughout the entire service life.
- Uncompromised performance in the face of shade, dirt or snow.
- Lower system complexity and cost.

A constant power supply for electric fences, without relying on the sun.

RECOMMENDED PRODUCTS*	
eZ8 9/75B	9V/65Ah
eZ8 9/100 A and B	9V/90Ah
eZ8 9/130 A and B	9V/120Ah
eZ8 9/150 A and B	9V/150Ah
eZ8 9/170	9V/165Ah
eZ8 9/200	9V/180Ah

*Enquire about other, less common voltages (6 V, 7.5 V, 12 V).





EZ8 Zinc Air Alkaline

Alarms

Our batteries provide a **reliable, self-contained power supply for alarm and intrusion protection systems**, even in areas without a connection to the mains electricity supply or in the event of power cuts. Suitable for both indoor and outdoor use, they guarantee long-lasting power to keep security systems running at all times, without the need for charging, maintenance or regular monitoring.

- Homes, holiday homes and vacant properties.
- Construction works and sites.
- Businesses and facilities in remote or isolated areas.
- Photovoltaic solar power stations.
- Farms and agricultural land.
- Motorhomes and boats.

Reliable power for alarm systems, without a mains connection.

RECOMMENDED PRODUCTS*	
eZ8 6/600	6V/600Ah
eZ8 6/960	6V/960Ah
eZ8 6/1200	6V/1200Ah
eZ8 7.5/400	7.5 V/330 Ah
eZ8 9/400	9V/360Ah
eZ8 9/600	9V/600Ah
eZ8 12/50 BP	12V/45Ah
eZ8 12/600	12V/600Ah

*Systems can be customised to deliver the optimum energy output in each case.

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E/Z8 Zinc Air Alkaline

Railways

CEGASA's industrial zinc-air batteries offer **a reliable power source for systems that regulate traffic and enhance railway safety**. Their stable performance and long service life ensure the ongoing operation of critical applications, helping to make traffic safer and more efficient.

- Signalling monitoring.
- Temporary speed limits.
- Emergency lighting systems on trains and at level crossings.

Partners in regulating traffic and ensuring the smooth running of the rail system.

RECOMMENDED PRODUCTS	
eZ8 1.5/100	1.5 V/100 Ah
eZ8 1.5/200	1.5 V/200 Ah
eZ8 1.5/600	1.5V/600Ah
eZ8 1.5/1200	1.5V/1200Ah
eZ8 1.5/2400	1.5 V/2,400 Ah
eZ8 1.5/3600	1.5 V/3,600 Ah
eZ8 3/1200	3V/1200Ah
eZ8 6/25	6V/25Ah
eZ8 6/50	6V/45Ah
eZ8 6/350	6V/350Ah
eZ8 6/700	6V/700Ah

*Enquire about other products.





E/Z8 Zinc Air Alkaline

Road traffic

With a stable, long-lasting power supply (up to eight times longer than other alternatives), CEGASA's industrial zinc-air batteries guarantee the **ongoing operation of signalling, control and monitoring systems**.

- Barricade lights.
- Mobile warning systems.
- Speed cameras.
- Meters.
- Flashing and steady light.
- LED mobile devices.

Reliable energy for safer and smarter mobility

RECOMMENDED PRODUCTS FOR ROAD SAFETY:

eZ8 6/25	6V/25Ah
eZ8 6/50	6V/45Ah
eZ8 6/60	6V/60Ah
eZ8 6/90	6V/90Ah
eZ8 6/120	6V/120Ah

E/Z8 Zinc Air Alkaline

Maritime traffic

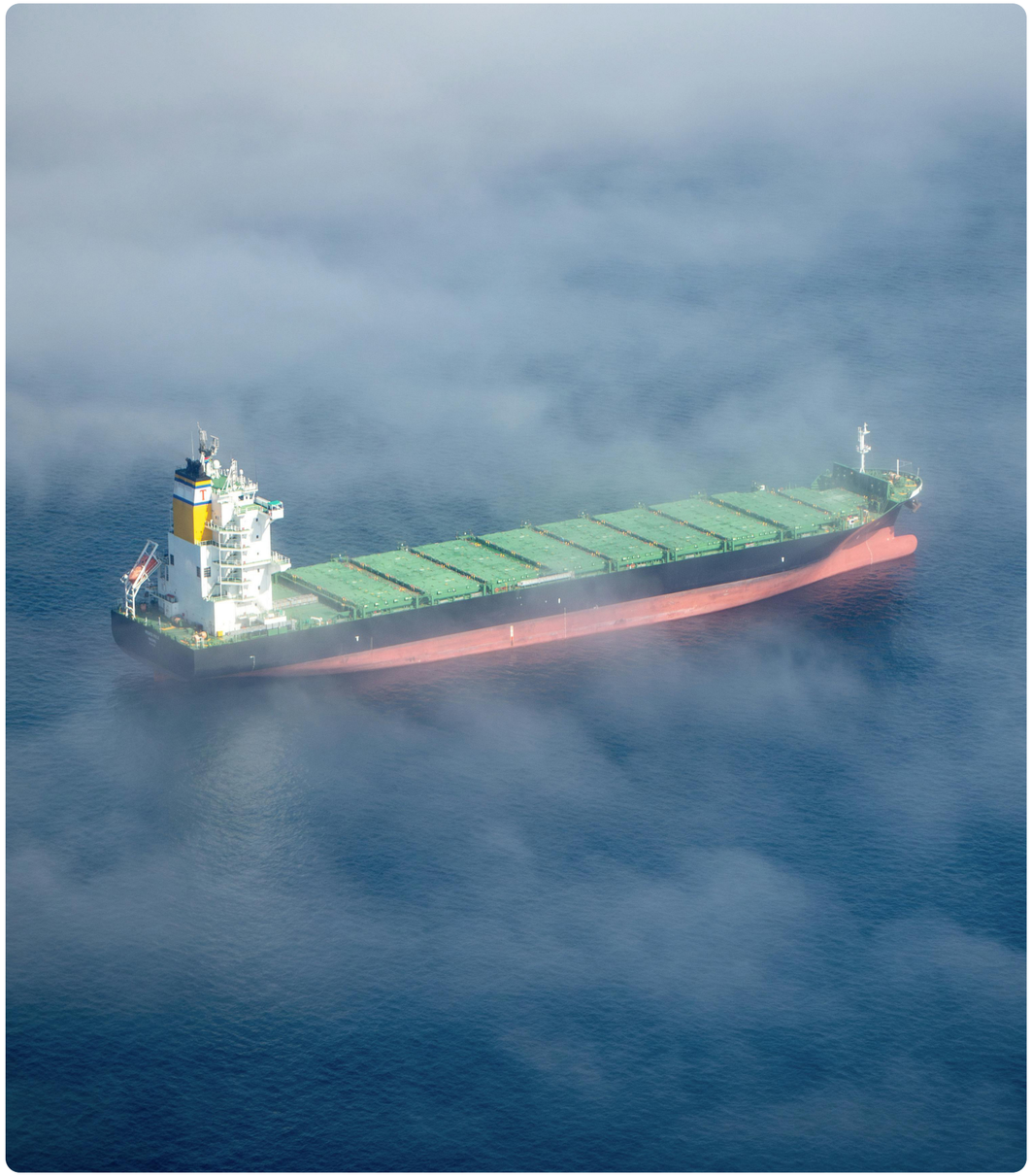
Safe sailing depends on signalling systems that operate on an ongoing basis, even in the most demanding settings. CEGASA's industrial zinc-air batteries provide a **reliable, long-lasting power supply for maritime and inland waterway navigation aids**, ensuring they continue to operate **even in adverse weather conditions**.

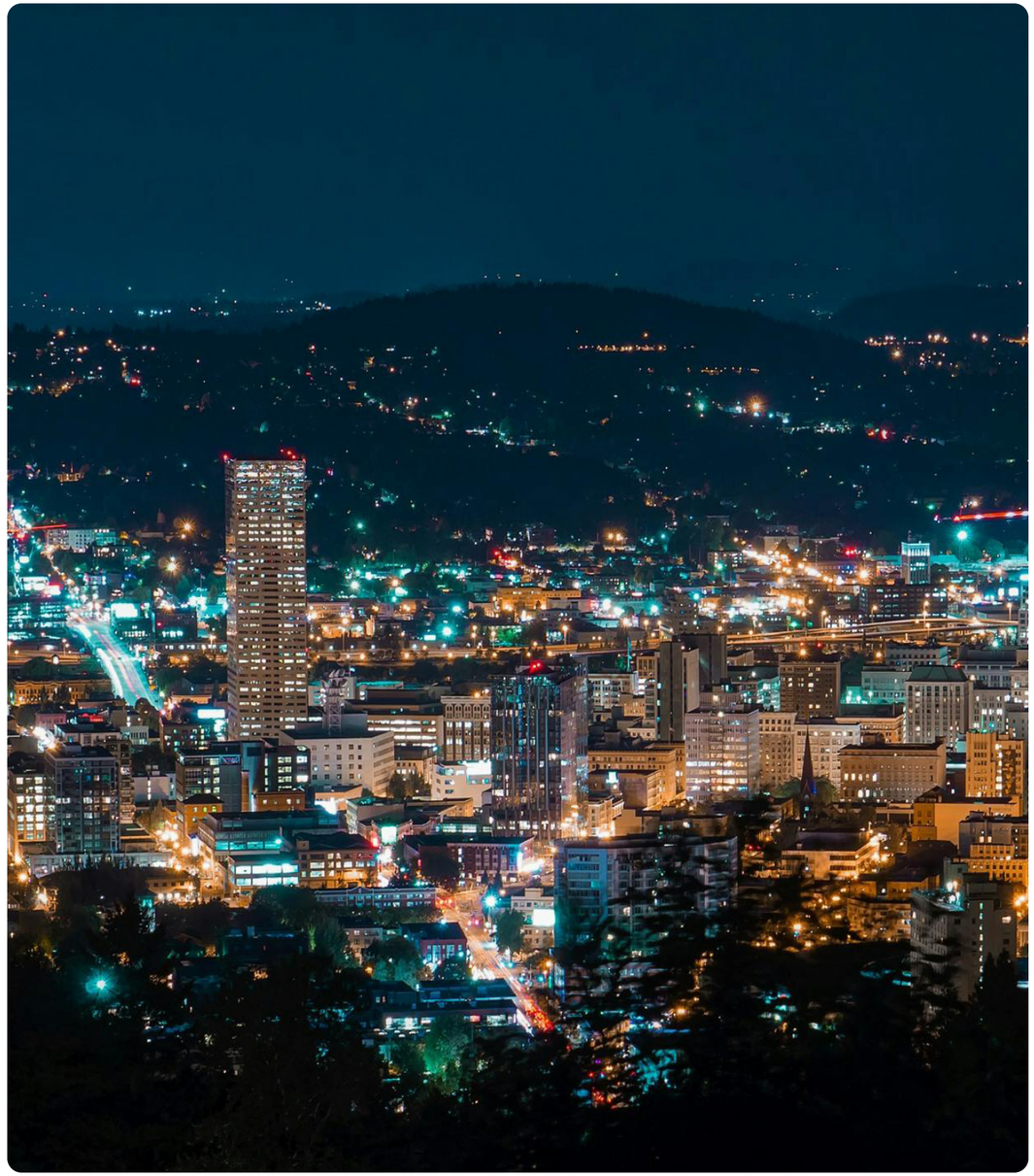
- Emergency lighting for lighthouses.
- Lighting for buoys and beacons.
- Barge lights.
- Beacons and trasmitters.

Long-lasting power for navigation aids, even in harsh conditions.

RECOMMENDED PRODUCTS FOR MARITIME SIGNALLING:

eZ8 1.5/1200	1.5V/1200Ah
eZ8 3/600	3V/600Ah
eZ8 3/1200	3V/1200Ah
eZ8 6/600	6V/600Ah





E/Z8 Zinc Air Alkaline

Smart City

Cities are becoming smart ecosystems in which technology and the Internet of Things (IoT) support telecommunications, mobility, and services for citizens and industry.

- Smart urban waste bins.
- Water meters.
- Capacity control, access control and crowd management.
- Lockers.
- Information boards.
- Parking and tourist occupancy sensors.

Seamless connectivity for smarter cities.

RECOMMENDED PRODUCTS:	
eZ8 6/50	6V/45Ah
eZ8 6/120	6V/120Ah
eZ8 6/140	6V/140Ah
eZ8 12/600	12V/600Ah

*Enquire about other voltages and capacities

E/Z8 Zinc Air Alkaline

Data analytics

Data collection and analysis are key to **making smarter decisions and anticipating potential risks**. CEGASA's industrial zinc-air batteries guarantee a reliable, long-lasting power supply for monitoring and control devices, ensuring the ongoing availability of critical information.

- Air quality and pollution monitoring.
- Weather stations.
- Environmental monitoring and assessment.
- Water quality monitoring.
- Radar and measurement systems.
- Monitoring of ground displacement and seismic activity.
- Monitoring of groundwater levels.

Power for uninterrupted monitoring.

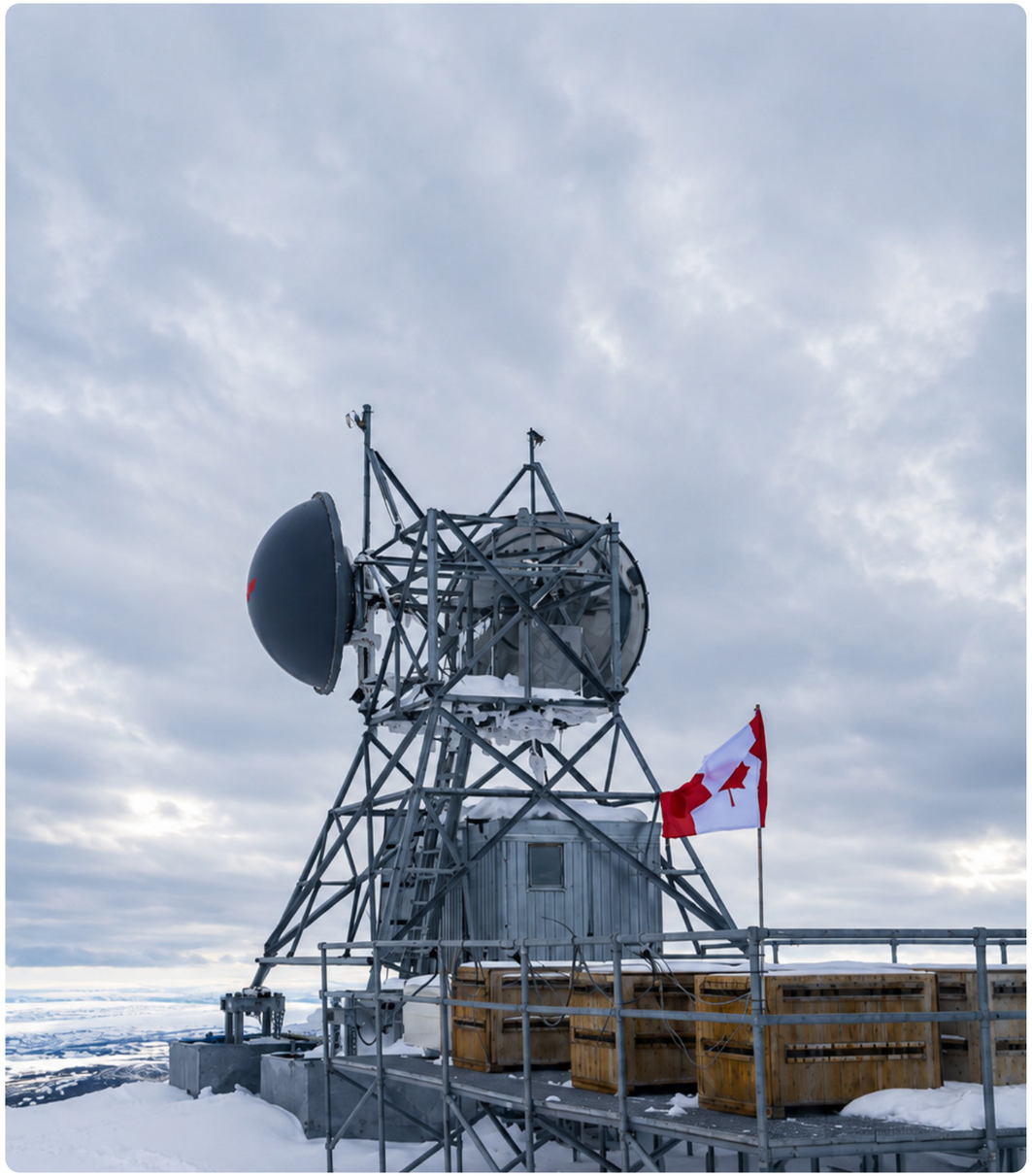
RECOMMENDED PRODUCTS FOR COLLECTING METEOROLOGICAL AND ENVIRONMENTAL DATA:

eZ8 1.5/1200	1.5V/1200Ah
eZ8 3/600	3V/600Ah
eZ8 3/1200	3V/1200Ah
eZ8 6/600	6V/600Ah
eZ8 9/400	9V/360Ah
eZ8 12/600	12V/600Ah

RECOMMENDED PRODUCTS FOR STRUCTURAL HEALTH MONITORING:

eZ8 12/600	12V/600Ah





eZ8 Zinc Air Alkaline

Telecommunications

In industries such as defence, security and scientific research, ensuring the uninterrupted operation of communications is critical. CEGASA's industrial zinc-air batteries provide a long-lasting, self-contained power supply for **telecommunications infrastructure installed in remote or hard-to-reach locations**.

- Data transmission equipment.
- Monitoring and control systems.
- Radio repeaters.
- Microwave links.
- Telecommunications infrastructure in remote areas.
- GNSS (Global Navigation Satellite System)

Uninterrupted communications start with a reliable power supply.

RECOMMENDED PRODUCTS:	
eZ8 1.5/3600	1.5 V/3,600 Ah
eZ8 1.5/4800	1.5 V/4,800 Ah
eZ8 3/600	3V/600Ah
eZ8 3/1200	3V/1200Ah
eZ8 6/600	6V/600Ah
eZ8 9/600	9V/600Ah
eZ8 12/600	12V/600Ah

*Enquire about other voltages and capacities.

eZ8 Zinc Air Alkaline

Payment and self-service systems

Payment and self-service systems require a power source capable of ensuring their availability over long periods. CEGASA's industrial zinc-air batteries offer a **reliable solution that reduces maintenance and service interruptions**.

- Parking meters.
- Vending machines.
- Interactive information points.
- ATMs.
- Ticket machines.

Every piece of equipment that is out of service is a missed opportunity.

RECOMMENDED PRODUCTS FOR PARKING METERS AND VENDING MACHINES:

eZ8 9/130M	9V/120Ah
eZ8 9/130D	9V/120Ah
eZ8 9/150M	9V/150Ah
eZ8 9/150D	9V/150Ah
eZ8 9/100	9V/90Ah

*Enquire about other voltages and capacities.





E/Z8 Zinc Air Alkaline

Cathodic protection

Corrosion can compromise the safety and durability of critical infrastructure. CEGASA's industrial zinc-air batteries provide a reliable, long-lasting power source for impressed current cathodic protection systems for above-ground, underground and submerged metal structures, such as pipelines, reinforced concrete structures, tanks, reservoirs, towers and ships... helping to **preserve these structures and reduce maintenance costs**.

Our batteries are used in iconic buildings such as the Petronas Towers.

RECOMMENDED PRODUCTS	
eZ8 1.5/200	1.5 V/200 Ah
eZ8 1.5/500	1.5V/500Ah
eZ8 1.5/600	1.5V/600Ah
eZ8 1.5/1200	1.5V/1200Ah
eZ8 1.5/2400	1.5 V/2,400 Ah
eZ8 3/600	3V/600Ah

E/Z8 Zinc Air Alkaline

Bespoke solutions

If the standard models don’t meet your specific application requirements, our R&D department is on hand to assess your needs and design an industrial battery tailored to your application.

OEM and bespoke packaging

We develop OEM battery solutions and custom packaging to meet our customers’ specific requirements.





E/Z8 Zinc Air Alkaline

Technical specifications

MODEL	Rated voltage (V)	Capacity (Ah)	Energy (Wh)	Connector	Metric dimensions	US dimensions	Units per box	Units per pallet
eZ8 1.5/100	1.5	100	130	2	Ø64x165 mm	Ø2.54"×6.46"	4	960
eZ8 1.5/200	1.5	200	260	2	Ø64x165 mm	Ø2.54"×6.46"	4	960
eZ8 1.5/500	1.5	500	650	Railway standard*	85x85x205 mm	3.35"×3.35"×8.23"	12	288
eZ8 1.5/600	1.5	600	780	1	108x108x220 mm	4.25"×4.25"×8.66"	4	320
eZ8 1.5/1200	1.5	1200	1560	1	108x108x220 mm	4.25"×4.25"×8.66"	4	240
eZ8 1.5/2400	1.5	2400	3120	1	216x108x226 mm	8.50"×4.25"×8.90"	2	120
eZ8 1.5/3600	1.5	3600	4680	1	334x116x234 mm	13.15"×4.57"×9.21"	1	55
eZ8 1.5/4800	1.5	4800	6240	1	216x216x226 mm	8.50"×8.50"×8.90"	1	60
eZ8 3/100	3	100	260	2	Ø64x165 mm	Ø2.54"×6.46"	4	960
eZ8 3/180**	3	180	468	6	110x67x125 mm	4.33"×2.64"×4.92"	10	600
eZ8 3/350	3	350	910	2	85x85x205 mm	3.35"×3.35"×8.23"	12	288
eZ8 3/600	3	600	1560	1	108x108x220 mm	4.25"×4.25"×8.66"	4	240
eZ8 3/1200	3	1200	3120	1	225x114x235 mm	8.90"×4.49"×9.21"	2	120
eZ8 6/25	6	25	130	3	66x66x110 mm	2.60"×2.60"×4.33"	12	1344
eZ8 6/40P	6	40	208	5	110x64,5x197 mm	4.33"×2.54"×7.76"	12	720
eZ8 6/50	6	45	234	3	66x66x110 mm	2.60"×2.60"×4.33"	12	1344
eZ8 6/60	6	60	260	7	160x75x130 mm	6.30"×2.95"×5.12"	5	420
eZ8 6/90	6	90	468	7	160x75x130 mm	6.30"×2.95"×5.12"	5	420
eZ8 6/90C	6	90	468	2	Ø180x171 mm	Ø7.09"×6.73"	4	168
eZ8 6/120	6	120	624	7	160x75x130 mm	6.30"×2.95"×5.12"	5	420
eZ8 6/140	6	140	728	7	160x75x130 mm	6.30"×2.95"×5.12"	5	420
eZ8 6/350	6	350	1820	2	170X85X208 mm	6.69"× .35"×8.19"	6	144
eZ8 6/600	6	600	3120	1	216x108x226 mm	8.50"×4.25"×8.90"	2	120
eZ8 6/700	6	700	3640	2	171X171X205 mm	6.73"×6.73"× 8.07"	2	90
eZ8 6/960	6	940	4890	1	255X170X206 mm	10.04"×6.69"×8.11"	1	64
eZ8 6/1200	6	1200	6240	1	216X216X226 mm	8.50"×8.50"×8.90"	1	60

*With M4 terminal or railway-standard connector / **Check availability

Other references available upon request.

Technical specifications

E/Z8 Zinc Air Alkaline

MODEL	Rated voltage (V)	Capacity (Ah)	Energy (Wh)	Connector	Metric dimensions	US dimensions	Units per box	Units per pallet
eZ8 7.5/75C	7.5	65	422.5	2	Ø180x171 mm	Ø7.09"×6.73"	4	168
eZ8 7.5/260	7.5	240	1560	4	190X126X160 mm	Ø7.09"×6.73"	4	180
eZ8 7.5/400	7.5	330	2150	2	147X109X219 mm	5.79"×4.29"×8.62"	3	150
eZ8 7.5/400 HP*	7.5	330	2150	2	272x147x130 mm	10.71"×5.79"×5.12"	2	144
eZ8 9/55B	9	45	351	4	166x112x114 mm	6.54"×4.41"×4.49"	4	360
eZ8 9/75B	9	65	507	4	166x112x114 mm	6.54"×4.41"×4.49"	4	360
eZ8 9/100 A	9	90	702	4	190X126X160 mm	7.48"×4.96"×6.30"	4	320
eZ8 9/100B	9	90	702	4 - 6 - 8	166X112X114 mm	6.54"×4.41"×4.49"	4	240
eZ8 9/130 A	9	120	936	4	190X126X160 mm	7.48"×4.96"×6.30"	4	320
eZ8 9/130B	9	120	936	4 - 6 - 8	166X112X114 mm	6.54"×4.41"×4.49"	4	360
eZ8 9/130 M	9	120	936	4 - 6 - 8	166X112X114 mm	6.54"×4.41"×4.49"	4	360
eZ8 9/130 D	9	120	936	4 - 6 - 8	166X112X114 mm	6.54"×4.41"×4.49"	4	360
eZ8 9/150 A	9	150	1170	4	190X126X160 mm	7.48"×4.96"×6.30"	4	180
eZ8 9/150B	9	150	1170	4 - 6 - 8	166X112X114 mm	6.54"×4.41"×4.49"	4	280
eZ8 9/150 M	9	150	1170	4 - 6 - 8	166X112X114 mm	6.54"×4.41"×4.49"	4	280
eZ8 9/150 D	9	150	1170	4 - 6 - 8	166X112X114 mm	6.54"×4.41"×4.49"	4	280
eZ8 9/170	9	165	1287	4	190x126x160 mm	7.48"×4.96"×6.30"	4	180
eZ8 9/200	9	180	1404	4	190x126x160 mm	7.48"×4.96"×6.30"	4	180
eZ8 9/400	9	360	2900	2	272X147X130 mm	10.71"×5.79"×5.12"	2	144
eZ8 9/500	9	500	3900	2	255X170X206 mm	10.04"×6.69"×8.11"	1	64
eZ8 9/600	9	600	4680	1	334x114x234 mm	13.31"×8.98"×9.84"	1	55
eZ8 12/50 BP	12	45	468	9	132x66x110 mm	5.20"x2.60"x4.33"	6	672
eZ8 12/65N	12	65	676	7	160X75X130 mm	6.30"×2.95"×5.12"	10	540
eZ8 12/350	12	350	3640	2	171X171X205 mm	6.73"×6.73"×8.07"	2	72
eZ8 12/500**	12	470	4890	2	255X170X206 mm	10.04"×6.69"×8.11"	1	64
eZ8 12/600	12	600	6240	1	216x216x226 mm	8.50"×8.50"×8.90"	1	60
eZ8 15/200	15	180	2360	4	272X147X130 mm	10.71" ×5.79"×5.12"	2	144

*For 4G alarms / **Check availability

E/Z8 Zinc Air Alkaline

Universal connectors*

1

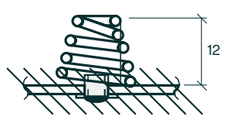
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M4

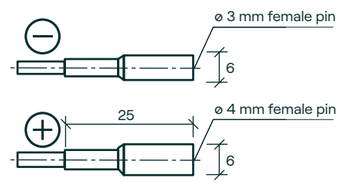
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Spring



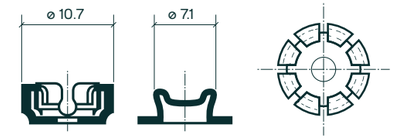
4

9V power supply



5

Snap connector



6

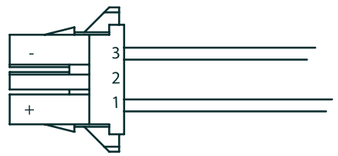
Molex 39-01-2020

7

IEC Standard

8

Type D AMP 1-178128-3



9

3.96-2Y



*Check availability of other universal connectors, such as jack and USB-C.

CEGASA

Energy you can trust

Do you have any questions?

We're here to help

SPAIN – PRODUCTION CENTRE

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