Your clean and quiet source of energy

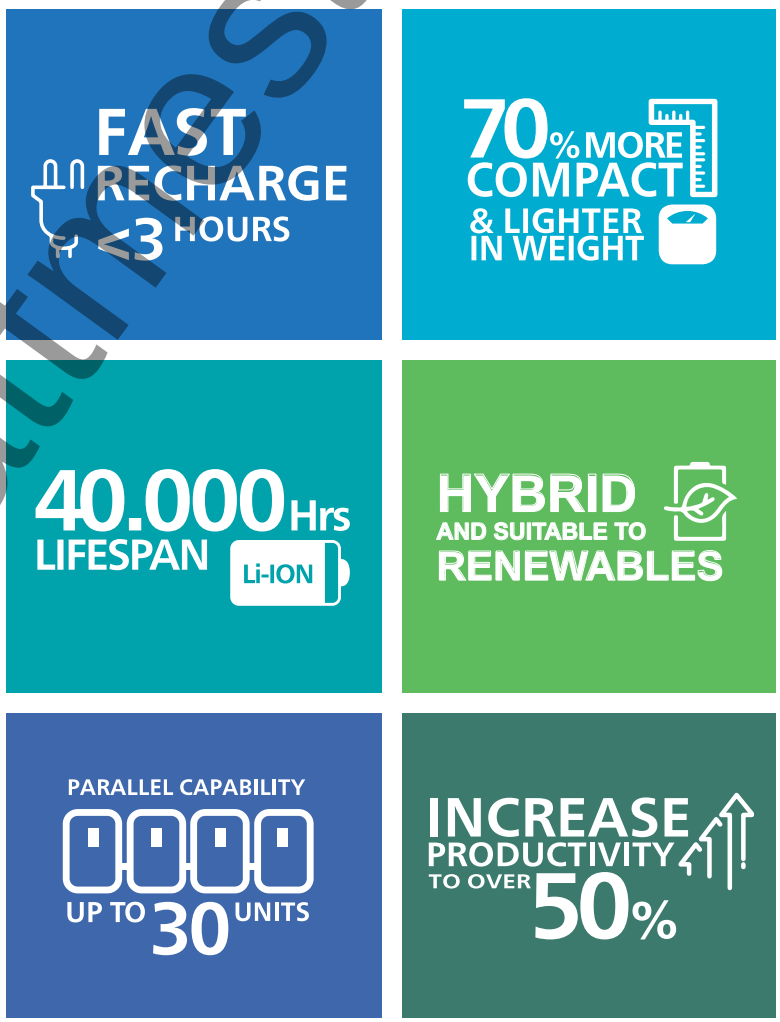
ZenergiZe range, Energy Storage Systems

Your clean and quiet source of energy

ZERO
NOISE
EMISSIONS
FUEL CONSUMPTION

The new ZenergiZe range from Atlas Copco takes modular energy storage to a new level. Developed with sustainability in mind, it helps operators dramatically reduce their fuel consumption and CO2 emissions, while delivering optimal performance with zero noise and virtually no maintenance. Leveraging the benefits of high-density lithium-ion batteries, the ZenergiZe units are compact and light compared to traditional alternatives, yet capable of providing over 12 hours of power with a single charge.

They are ideally suited for noise-sensitive environments, such as event or metropolitan construction sites, telecoms, or rental applications, or to resolve low load problems.



Data may change depending on models

ZenergiZe

Clean and quiet energy, optimal performance

Wattmester Kft. www.wattmester.hu +36-1-436-0630

The solution to meet your needs

The ZenergiZe range perfectly fits with applications that require a continuous and demanding flow of electrical power energy. It is ideal to properly size cranes and other electric motors, for events celebrated in noise-sensitive locations and for other stationary applications such as hospitals or recharging points for electrical cars.

Also, the ZenergiZe can be synchronized with other Energy Storage Systems, which allows the machine to become the storage of all the energy sources connected to a microgrid.


POWER PLANT


EVENTS


TELECOM


CONSTRUCTION


RENEWABLES


MOTORS


RECHARGING POINTS

Our Energy Storage Systems can be used combined with generators or renewables, to make a hybrid power solution for construction sites, as well as to create microgrids, to provide energy to several applications, like residential, commercial, industrial or public services.

One solution, multiple options

ISLAND Mode

The island mode enables our Energy Storage Systems to be used as a standalone power solution. It is an ideal way to meet the needs of zero noise environments like night operations, remote telecom applications, or to resolve low load challenges.

QUIET TECHNOLOGY

ZenergiZe models are silent in operation, delivering zero noise emissions, thereby contributing to a safer working environment. They are a perfect choice for noise-sensitive applications, such as events and metropolitan construction sites. Allowing to increase the productivity of the core business **up to 50%.**

FAST CHARGING

In Island mode, the machines are ready to perform in a very easy way. Connect them directly to the loads and start working. But as they need to be ready at any moment, fast charging is a must, the ZenergiZe can be fully recharged in less than **3 hours.**

COMPACT DESIGN

Lithium-ion allows us to reach high power machines in the most compact version, making them easier to transport and **up to 70%** lighter in weight than other battery technologies. Modularity is a big benefit while talking about transportability.

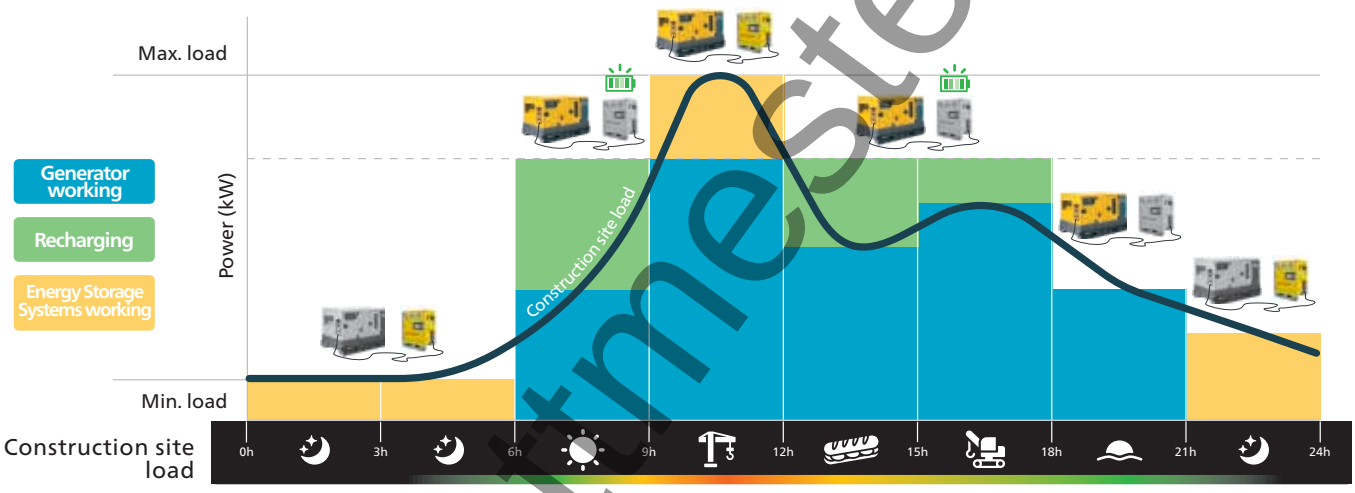
CLEAN TECHNOLOGY

When used in island mode, the CO2 savings can reach **up to 100%** if the units are powered by renewable energy sources. You can scale the solution to reach the needed clean energy demand with the smart paralleling system.

HYBRID Mode

In hybrid mode, the ZenergiZe Energy Storage Systems can be used together with any diesel generator to enable smart load management. With the benefit of zero noise emissions, the hybrid solution is ideal for use in a range of demanding applications, for example, any construction site where low loads or peaks can become a problem for the generator.

24 HOURS at a construction site



HYBRID SYSTEM

The units are easy to connect to the generator thanks to a wide offer of socket options. Also, paralleling ZenergiZe unit with our smart management controllers will allow you to increase the power offer according to the demand.

VERSATILITY

The ZenergiZe Energy Storage Systems enables versatile smart load management. The units help the generator reach the peaks of power, optimizing its performance, extending its lifespan **up to 15%,** and decreasing general maintenance and overhaul in **overhaul by 50%.** This means that **a 40%** smaller generator can be used. The ZenergiZe range is also ideal for managing low load requirements.

ENVIRONMENTALLY FRIENDLY

In hybrid mode, users can reduce daily fuel consumption by **up to 80%**, saving more than 200 tons of CO2 during its operating life.

ZenergiZe, potential savings*

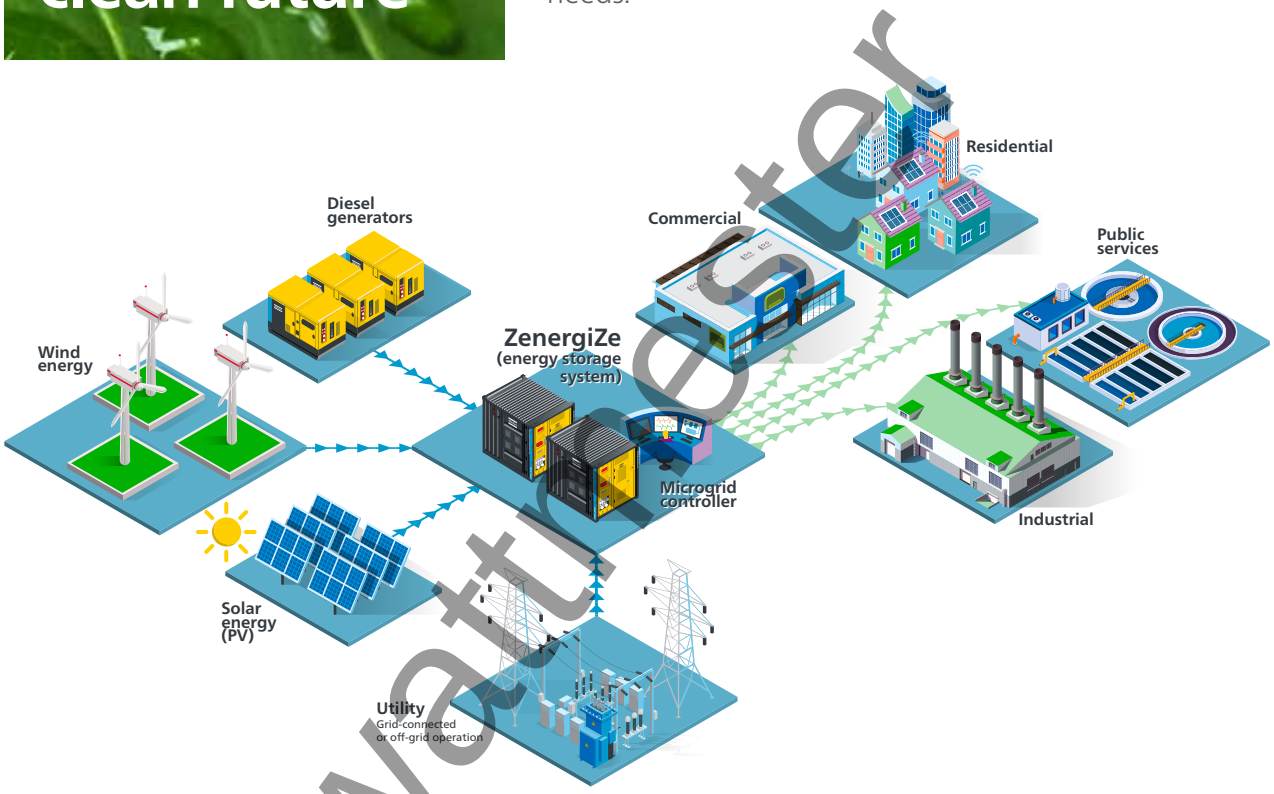
- 200 tons CO_2
- 900 trees
- 70 cars off the road
- 100.000 m^3 of waste

*per unit during its life cycle, working in a hybrid solution

Providing energy for a sustainable, green, and clean future

MICROGRIDS

ZenergiZe becomes a key piece of the microgrid. These are independent power network that uses local, distributed energy resources to provide grid backup or off-grid power to meet local electricity needs.



The Energy Storage Systems will help to benefit as much as possible renewable energy, as they are unpredictable energy sources although the most sustainable.

In combination with generators thanks to the paralleling system of Atlas Copco machines, this will become a total decentralized solution that will support the grid if needed.

PARALLEL CAPABILITY
UP TO 30 UNITS

PLUG & POWER

HYBRID AND SUITABLE TO RENEWABLES

ZBC, large range Energy Storage Systems Key benefits

EXCELLENT PERFORMANCE

- Paralleling capability – scalable solution
- Micro grid possibility with genset
- Photovoltaic management
- Temperature control
- Lithium-ion benefits

PLUG AND PLAY

- External connections Input and output for an easier hybridization
- External main control
- Alarms and emergency button access
- Fire extinguisher system

ZERO FUEL AND EMISSIONS

INCREASE PRODUCTIVITY TO OVER 50%

ENVIRONMENTAL FRIENDLY

- Reduce noise pollution, less than 80 dB(A) at 0,5 m
- Zero CO2 and NOx emissions
- Provide clean and efficient renewable solutions

LOWER COST OF OWNERSHIP

- Increase the lifespan of hybrid fleet
- Reduce fuel consumption up to zero
- Low maintenance
- Improvement of hybrid solution maintenance
- Proper sizing means more efficiency
- Increase your productivity avoiding new emission/noise legislations

atlascopco.com/zenergize

Optional features

- Paralleling controller
- Customized color
- Connections

ZBP medium range Energy Storage Systems Key benefits

LITHIUM-ION TECHNOLOGY

- 40.000 hour lifespan under normal operating conditions
- Overload capability up to 200%
- Virtually no maintenance
- Perfect match for short cycles (charge and discharge) performance
- Large usable energy range compared to other technologies
- Specifically designed to work at high and low ambient temperatures, from -15º to 50º*
- Low total cost of ownership

HIGH CAPACITY LITHIUM ION BATTERY

*Check options

THE ERA OF CONNECTIVITY

- Smart start and stop
- Energy Management system (EMS) with Battery management communication (BMS)
- Remote monitoring system and Bluetooth mobile application
- Parking mode

HYBRID WITH RENEWABLES

A MODULAR AND PORTABLE SOLUTION

- Galvanized skid
- Integrated lifting structure with single elevation point
- Doors for maintenance and door restraints
- Sling guides
- Compact size and light weight for easy transport

PLUG AND PLAY

- Easy connection for solar panels
- Earth pin
- Emergency stop
- Circuit Breakers and Earth leakage Relay
- Plug and play sockets with any genset and load
- Passthrough limitation 100A

Optional features

- Cold weather performance
- Customized color
- Trailer
- GPS + GSM 3G or WIFI
- MPPT Smart Solar Charger

General technical data		ZBP 45	ZBC 100-575	ZBC 150-575	ZBC 250-575	ZBC 500-250
Nominal rated power	kVA	45	100	150	250	500
Nominal energy storage capacity	kWh	50	576	576	576	246
Rated voltage (50Hz) (1)	VAC	400 / 230	400	400	400	400
Battery system voltage	VDC	48	768	768	768	768
Nominal rated current	A	65	144	217	360	720
Operating temperature (2)	ºc	-15 to 50	-20 to 60	-20 to 60	-20 to 60	-20 to 60
Sound power level	dB(A)	<80	<80	<80	<80	<80
Battery						
Quantity	units	12	30	30	30	20
Cell chemistry (3)		LiFePO4	LiFePO4	LiFePO4	LiFePO4	LiFePO4
Nominal battery voltage	Vdc	12,8	76,8	76,8	76,8	76,8
Nominal capacity @ 25°C	Ah	330	250	250	250	160
C-rate discharge		1	0,5	0,5	0,5	2
Max recommended DoD % (depth of discharge)	%	90	90	90	90	90
Lifetime (% DoD) @ 25ºC (4)	Cycles	6000	6000	6000	6000	6000
SoH (state of health)	%	70	70	70	70	70
Battery balanced (recharge up to 100%)		Once per month	Once per 3 month			
Inverter						
Quantity	units	3	2	3	5	8
Total Peak Power (seconds)	kVA	67,5	110	165	275	550
Max passthrough current (5)	A	100	No limitation			
Build in transformer		Yes	Yes	Yes	Yes	No
Performance						
Discharge autonomy 100% / 75% nominal power	h	1 / 1,4	5 / 6,6	3,3 / 4,4	2 / 2,6	0,4 / 0,6
Discharge autonomy 50% / 25% nominal power	h	2,1 / 4,7	10 / 20	6,6 / 13,3	4 / 8	0,9 / 1,8
Recharging time (@DoD%)	h	1,8	5,5	3,7	2,5	0,5
Hybrid recommendation (generator size)	kVA	60-120	>20	>30	>50	>50
Cooling system		Air cooled	HVAC	HVAC	HVAC	HVAC
Fire extinguisher system included		N/A	Yes	Yes	Yes	Yes
CE compliant		Yes	No	No	Yes	Yes
Dimensions and weight						
Dimensions (L x W x H)	mm	1300 x 1160 x 1900	2991 x 2438 x 2896	2991 x 2438 x 2896	2991 x 2438 x 2896	2991 x 2438 x 2896
Weight	kg	1325	11000	11000	11000	9900

(1) Switchable 50/60Hz, Voltage range 380-415V (check with technical support)| (2) Cold weather option advisable | (3) Lithium iron phosphate | (4) Check technical documentation for years-lifespan | (5) Parallelling capabilities available (check with techncial support) || Standards: UN, CE, IEC, IEEE (check with technical support) || Atlas Copco is not responsible for any problem that may occur due to errors or changes of these data. They can also be changed or rectify without prior notification

Socket options

		ZBP45		
		OP1	OP2	OP3
IN	CEE 400V 5P 125A	1	-	1
	POWER LOCKS	-	1	-
	CEE 400V 5P 63A	-	-	-
	CEE 400V 5P 32A	-	-	-
	CEE 230V 3P 16A	1	1	1
OUT	CEE 400V 5P 125A	1	-	1
	CEE 400V 5P 63A	1	1	1
	CEE 400V 5P 32A	1	1	-
	POWER LOCKS	-	1	-
	CEE 230V 3P 63A	-	-	3
	*230V 3P 16A	2	2	-

*CEE, RIM and PIM available

OP1 for ZBP45

OP2 for ZBP45

Product portfolio

GENERATORS

PORTABLE
1,6–12 kVA

SPECIALIZED
9–660* kVA

VERSATILE
9–1250* kVA

LARGE POWER
800–1450 kVA

*Multiple configurations available to produce power for any size application

DEWATERING PUMPS

ELECTRIC SUBMERSIBLE
250–16.200 l/min

SURFACE PUMPS
833–23.300 l/min

Diesel and electric options available

ENERGY STORAGE SYSTEMS

ZENERGIZE
45-500* kVA

LIGHT TOWERS

DIESEL

BATTERY

ELECTRIC

ONLINE SOLUTIONS

SHOP ONLINE PARTS ONLINE

Spare parts for power equipment. We handle your orders 24 hours a day.

POWER CONNECT

Scan the QR code on your machine, and go to the QR Connect Portal to find all the information about your machine.

LIGHT THE POWER: YOUR SIZING TOOL

A useful calculator to help you choose the best solution for your power and light needs.

LightThe Power

FLEETLINK

Intelligent telematics is a system that helps optimize fleet usage and reduce maintenance, ultimately saving time and cutting operating costs.

PUMP SIZING CALCULATOR

With a few inputs, this pump sizing calculator will help you to compare dewatering submersible models and find the right one for you.

VISIT THE POWER ISLAND

Live a 360° experience to discover a selection of products and solutions that we offer, in an almost real environment.

360°

Atlas Copco

Atlas Copco Power Technique

www.atlascopco.com