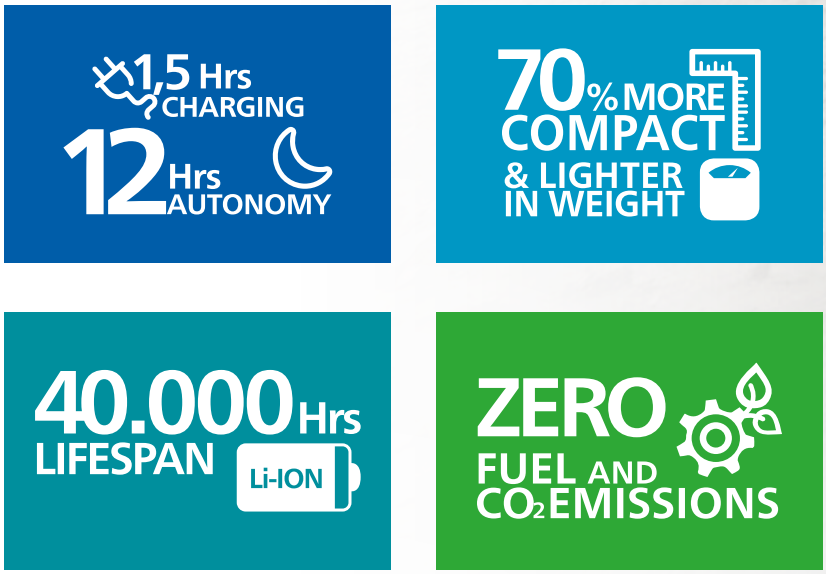
Your clean and quiet source of energy

ZenergiZe range

Your clean and quiet source of energy

ZenergiZe range

The new ZenergiZe range from Atlas Copco takes modular energy storage to a new level. Designed 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.



*Depending on models

ZenergiZe

Clean and quiet energy,
optimal performance

Optimize with ZenergiZe. One solution, two options.

1) ISLAND Mode

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

We have a solution to meet your needs

ZERO NOISE QUIET TECHNOLOGY

ZenergiZe models are silent in operation with 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.

70% MORE COMPACT & LIGHTER IN WEIGHT COMPACT DESIGN

The range has a footprint of just 1.5 m^2,thanks to it, 20 units can be loaded on a 13-metre truck. The compact units are also much lighter in weight compared to other solutions, and can be transported without any specialist equipment. The range is also ideal for multidrop applications, thanks to its modular structure.

1.5 Hrs CHARGING 12 Hrs AUTONOMY RELIABLE PERFORMANCE

The batteries provide reliable operation and flexible load management. For example:

ZBP45	ZBE45	LOAD
56 h	56 h	Using a HiLight E3+ (16A 1ph)
8 h	8 h	Using the smallest socket (16A 3ph), low loads*
1 h	3 h	For full power requirements (125A 3ph) **

*Considering 5kW
**Max power for ZBP45 - 45kVA & for ZBE45 - 15kVA

ZERO FUEL AND CO_2 EMISSIONS CLEAN TECHNOLOGY

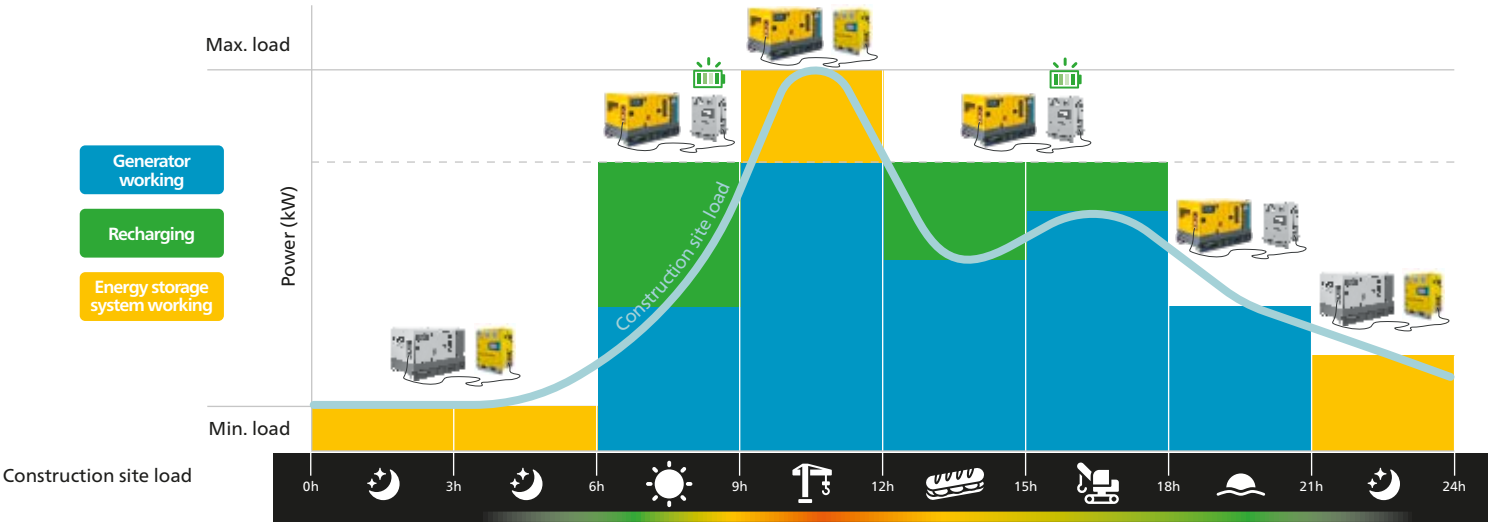
When used in the island mode, the CO2 savings can reach up to 100 percent if the units are powered by renewable energy sources.

*Depending on models

2) HYBRID Mode

In hybrid mode, the ZenergiZe energy storage system 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 at events and in metropolitan construction.

24 hours at a construction site:



HYBRID SYSTEM

The two models in the ZenergiZe range offer rated power of 15kVA and 45kVA, and energy storage capacity of 45kWh. The units are easy to connect to the generator thanks to a wide range of socket options.

VERSATILITY

The ZenergiZe energy storage system enables versatile smart load management. The units help the generator reach the peaks of power, optimizing its performance and extending its lifespan. 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 50%, contributing to a low total cost of ownership (TCO) and reducing the environmental impact of operation. During its operating life, a ZenergiZe unit emits 50 percent less than a standard standalone generator, saving approximately 100 tons of CO2.

ZenergiZe, potential savings*

- 100 tons CO_2
- 450 trees
- 35 cars off the road
- 51.000 m^3 of waste

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

Cleaner energy – working towards greener operations

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
- GPS + GSM 3G or WiFi
- ITR
- MPPT Smart Solar charger
- Custom colors
- Trailer

General technical data		ZBP45	ZBE45
Nominal rated power	kW / kVA	36 / 45	12 / 15
Nominal energy storage capacity	kWh	45	45
Rated voltage (50Hz)	VAC	400 / 230	400 / 230
Battery system voltage	VDC	48	48
Nominal rated current	A	65	22
Operating temperature[1]	ºC	-15 to 50	-15 to 50
Sound power level	dB(A)	<70	<70
Battery			
Quantity	units	12	12
Cell chemistry		Lithium iron phosphate LiFePO4	Lithium iron phosphate LiFePO4
DoD % (depth of discharge)	%	90	90
Energy density	Wh / kg	300 / 3840	300 / 3840
Overcurrent capability		up to 2 x nominal current	up to 2 x nominal current
Lifetime (70% DoD)	Cycles	3000	3000
Inverter			
Quantity	units	3	3
Total nominal power	kVA	45	15
Overload capability	kW	up to 2 x nominal power	up to 2 x nominal power
Charger (48Vdc)	A	200	70
Max passthrough current	A	100	100
Performance[2]			
Discharge autonomy 100% / 75% nominal power	h	1 / 1,4	3 / 4,1
Discharge autonomy 50% / 25% nominal power	h	2,1 / 4,7	6,2 / 13,1
Recharging time / Parking mode recharging (@DoD%)	h	1,8 / 18,3	4,4 / -
Recommended generator size	kVA	60-120	15-45
Max outlet hybrid system	A	165	122
Dimensions and weight			
Dimensions (L x W x H)	mm	1300 x 1160 x 1900	1300 x 1160 x 1900
Weight	kg	1325	1230

[1] Cold weather option advisable | [2] Considering PF=1 & Useable energy 90% (DOD), Generator stop criteria: loads below 30% of its nominal power

Socket options

		ZBP45			ZBE45	
		OP1	OP2	OP3	OP1	OP2
IN	CEE 400V 5P 125A	1	-	1	-	-
	POWER LOCKS	-	1	-	-	-
	CEE 400V 5P 63A	-	-	-	1	-
	CEE 400V 5P 32A	-	-	-	-	1
	CEE 230V 3P 16A	1	1	1	1	1
OUT	CEE 400V 5P 125A	1	-	1	1	-
	CEE 400V 5P 63A	1	1	1	1	1
	CEE 400V 5P 32A	1	1	-	1	1
	POWER LOCKS	-	1	-	-	-
	CEE 230V 3P 63A	-	-	3	-	-
	*230V 3P 16A	2	2	-	2	2

*CEE, RIM and PIM available

OP1 for ZBP45

OP2 for ZBP45

Product portfolio

GENERATORS

PORTABLE
1,6–12 kVA

MOBILE
9–1250* kVA

INDUSTRIAL
10–2250* 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 SYSTEM

ZENERGIZE

LIGHT TOWERS

DIESEL

BATTERY

ELECTRIC

AIR COMPRESSORS AND HANDHELD TOOLS

AIR COMPRESSORS
1–116 m^3/min
7–345 bar

HANDHELD TOOLS
Pneumatic
Hydraulic
Petrol engine driven

ONLINE SOLUTIONS

SHOP ONLINE PARTS ONLINE
Find and order the 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 system that helps optimize fleet usage and reduce maintenance, ultimately saving time and cutting operating costs.

CONNECTED FLEET LINK SECURED

Atlas Copco

Atlas Copco Power Technique

www.atlascopco.com/ptba