

Atlas Copco

Transforming power supply with our mobile microgrid

Sustainable Power Solutions



Your path to energy conversion


Atlas Copco's consolidated Energy Storage System (ESS) range is at the heart of the power supply transformation.

Developed with sustainability in mind, it helps operators dramatically reduce their fuel consumption and CO2 emissions, while delivering optimal performance with reduced noise and service cycles. Leveraging the benefits of high-density lithium-ion batteries, these units are compact and light compared to traditional alternatives, yet capable of providing days of autonomy of power with a single charge. They are ideally suited for covering low load and noise sensitive applications such as events, metropolitan construction sites, telecom, and rental applications.


These Energy Storage Systems are a perfect fit for applications with a high energy demand and variable load profiles, as they successfully cover both low loads and peaks. For example, they can help properly size diesel generators for cranes and other electric motors, and efficiently manage peaks in energy demand for noise-sensitive events and for electric vehicle (EV) recharging stations. Furthermore, operators can synchronize several models, which can become the heart of any microgrid, storing and delivering energy coming from several energy sources, including renewables




<1 HOUR FAST RECHARGE



25 tons & 20 feet
COMPACT & ROBUST



>8 UNITS
HYBRID POWER PLANTS











>50% INCREASED PRODUCTIVITY



UP TO 90% LESS FUEL AND CO₂ EMISSIONS*

*When working in hybrid mode with power generators

The solution to meet your needs

										
MODEL	POWER ENERGY	APPLICATION	MANUFACTURING	EVENTS	TELECOM BROADCAST	CONSTRUCTION	MOTORS CRANES	RECHARGING POINT	GRID JOBS UTILITIES	RENEWABLES
ZBP 2000	2000 VA 2000 Wh	Noise reduction Low loads Prime power		●		●				○
ZBP 30-60 ZBP 30-75 ZBP 40-60 ZBP 40-75	30/40kVA 60/75 kWh	Peak shaving Low loads Prime power	○	●	●	●	●			○
ZBP 120-120	120kVA 120 kWh	Peak shaving Low loads Prime power	○	●	●	●	●	●		●
ZBC 250-575	250 kVA 575 kWh	Hybrid Prime power	●	●	○	●		●	●	●
ZBC 500-250	500 kVA 250 kWh	Peak shaving Prime power	○			●	●		○	
ZBC 1000-1200	1000 kVA 1200 kWh	Hybrid Prime power Peak shaving Power booster	●	●	●	●	●	●	●	●

Prime power: Non-stationary demand, not UPS

Low loads: Improving a diesel genset performance

Peak shaving: Consume peaks totally or partially

Energy storage: Avoid wasting extra energy production

Noise reduction: Reduce acoustic pollution

Hybrid: Plug and play with other energy sources

● BEST CHOICE

○ SUITABLE



A full portfolio ready for versatile performance and applications

ISLAND Mode

The island mode enables our container with integrated inverter and storage, to be used as a standalone power solution. It is an ideal way to meet the needs of noise-



QUIET TECHNOLOGY

ZBC range noise level is 54db only. These models deliver reduced noise emissions, for a safer working environment. They are a perfect choice for increasing the productivity in noise-sensitive applications, such as, events and metropolitan construction sites.



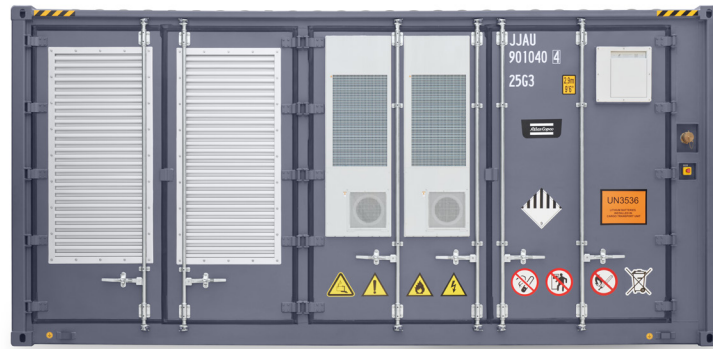
COMPACT DESIGN

All required batteries, power converter systems and all that you need is in one box, enabling you to reduce maintenance costs. Designed for plug and play, the full range of 10 feet and 20 feet high cube versions, are built with high energy density.



SAFE OPERATIONS

Advanced fire extinguishing systems and leakage current protection systems in the ZBCs provide safe operations.



sensitive environments like night operations, sensitive events operations, or to resolve low load challenges.



FAST CHARGING

In Island mode, the ZBCs can be connected directly to loads to start working. Fast charging for a full recharge in an hour is possible depending on the power source.



CLEAN TECHNOLOGY

When used in island mode, CO₂ savings will grow exponentially if the units are powered by renewable energy sources. You can scale the solution to reach the needed energy demand with the smart paralleling system.



MORE POWER ENDURANCE

Easily increase both energy and storage capacity by using ZBCs in parallel.

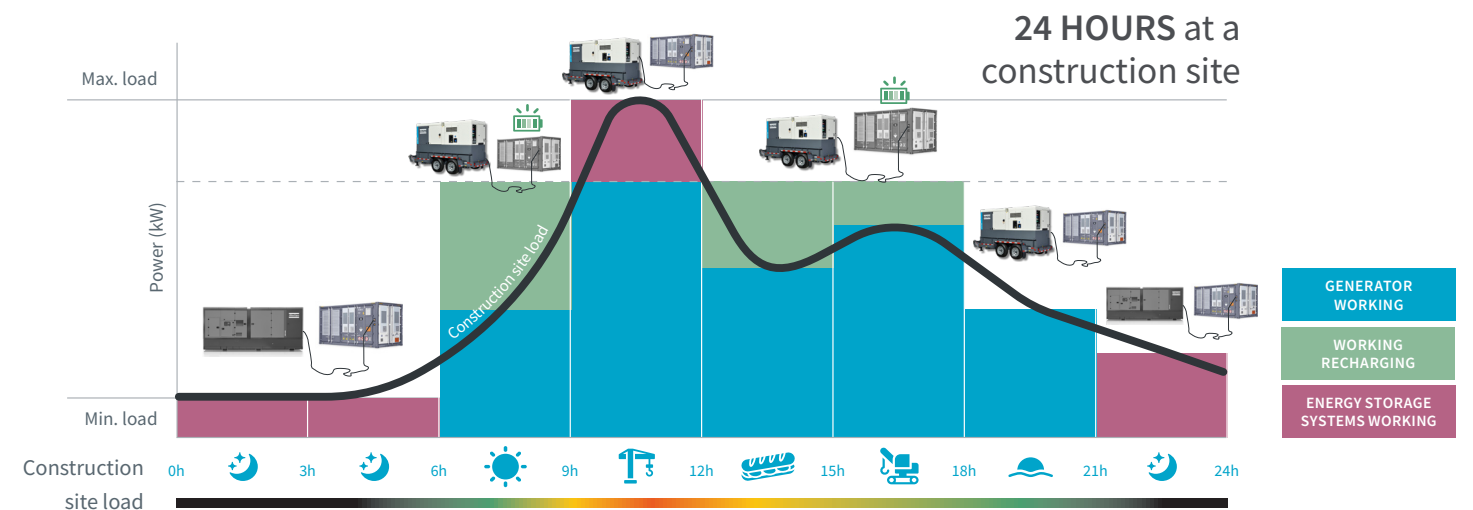
HYBRID Solutions

We offer a product that is compatible with different brands of generators and their control systems, to this we call it Multi-system connection. This will provide versatility to any fleet without investing in new assets. If you prefer to go with Atlas Copco and its PMS controller then you will enjoy the benefits of our ecosystem, efficiency and customer experience taken to its next level.

ZBC range is also compatible for grid jobs. Thanks to their different grid code certificates you can work in

many different countries. Also the possibility to work with an isolated input, will provide to this jobs an easy and safe way of working.

With a wide offer of power connection options, the units are easy to connect to the different energy sources available on site. Also, thanks to ECO Controller, Atlas Copco's Energy Management System (EMS), these units can be synchronized to increase the power offering to match the demand.



PROTECT YOUR GENERATOR FLEET

In hybrid mode with a generator, the ZBC range increases the solutions' overall efficiency, accounting for the peaks of power and low loads. They optimize the generator's performance extending its lifespan by up to 15%, and decreasing general maintenance and overhaul cost by 50%. This means that a 40% smaller generator can be used.

Savings depending on application:

- 30 to 90% lower fuel consumption.
- Reduce generator running hours by up to 70%.
- Lower maintenance and operational costs.

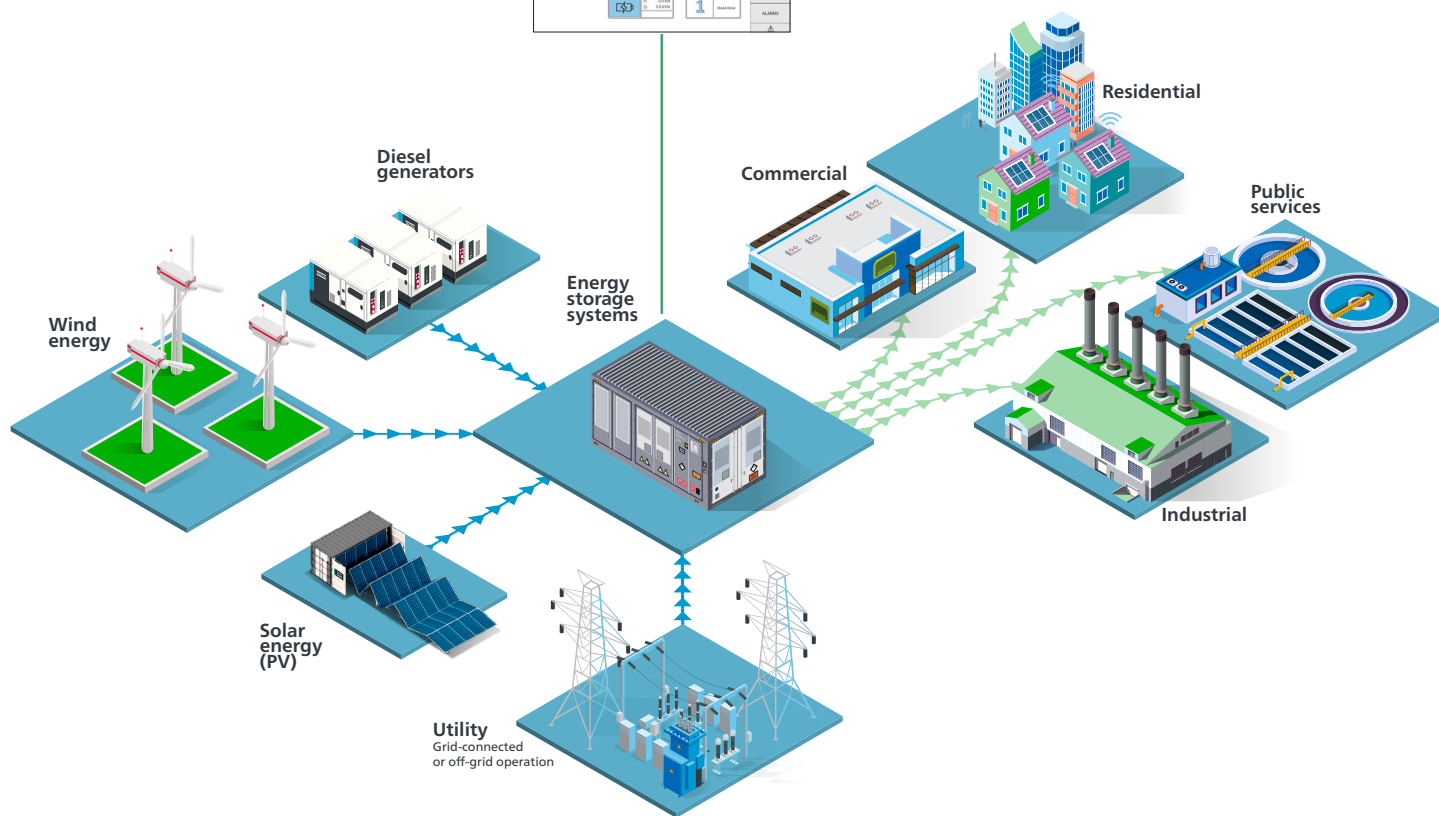
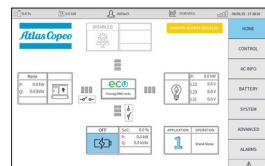


MULTIPLE TASK

More than just one product. You will find many solutions such as Peak Shaving, Energy Trade, Power Booster, Power Factor correction, continuous power mode in one product.

- Lower fuel consumption and emissions.**
30 to 90% depending on application (avoiding the average load for the generator being below 30%)
- Lower service and maintenance costs.**
Depending on application, reduce generator running hours by up to 70%
- Long lifetime of generator.**
Due to the above points, the lifetime of a generator is extended 5-10 years

A key piece for the optimization of the energy supply



Microgrids:

Energy Storage Systems are the heart of battery based microgrids, and thanks to Atlas Copco's in-house developed EMS, the ECO Controller™, they enhance scalable and decentralized systems with several energy inputs. These microgrids are independent power networks that use local, distributed energy resources to provide grid

backup or off-grid power to meet local electricity needs. Enabling the combination of several energy sources, the heart and the brain— Energy Storage Systems and ECO Controller™ help rental companies and operators to deploy flexible power, decarbonizing operations and achieving significant fuel, energy and lifecycle savings.

ECO Controller, the brain of the solution

The ECO Controller™ by Atlas Copco, is a human-machine interface (HMI) that provides operators with full control over their temporary power applications by optimizing energy generation, distribution, and consumption through advanced data management.

WHY ECO CONTROLLER?

- Fully flexible and customizable
- Provides remote control and is open to communicate with third party monitoring systems

VERSATILITY

- The “conductor” that orchestrates energy sources with a demand side craving cleaner solutions

WHAT DOES IT DO?

- It controls and monitors the power output integrating the collected data
- Centralizes all hybrid energy sources

FLEXIBLE AND CONSISTENT SOFTWARE

- In-house development
- Same user experience in all products
- Scalable for global solutions and future applications

CONNECTED

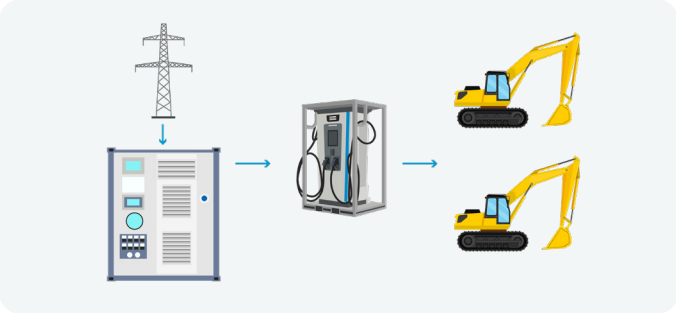
- Manual and automated controls
- Ensures optimal performance
- Increases component lifetime

FRictionless

- User friendly
- Dedicated for Rental Industry
- Ensures seamless interface
- Client driven software



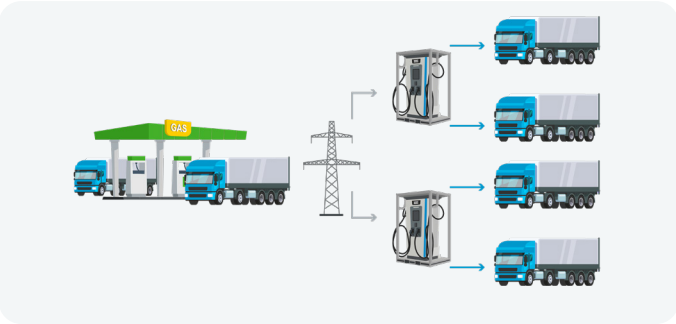
Boosting power on site



Machinery electrification

Boosting the grid

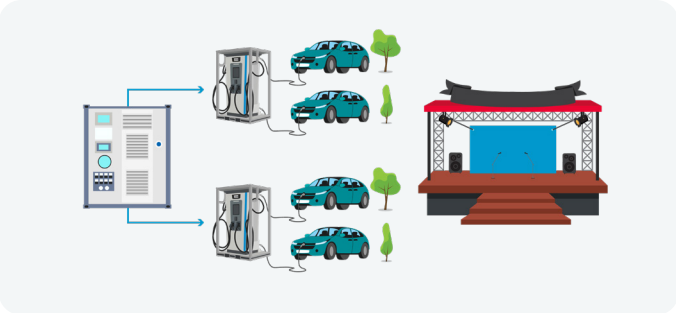
- No need of extending the grid
- Decrease construction project timeline
- Increase operational hours



Temporary recharging station

High demand

- No need of fix installation investment
- Cover seasonal or trend needs
- Scalable



Events

Remote, no access to the grid

- Remote areas with no grid access
- Perfect match with Mobile renewables (solar)
- Mobile around the site for convenience

EV charging station and grid booster

The electrification of the equipment calls for compliant and efficient recharging stations. Providing a full portfolio of and the Fast Charger ensure flexible performance on site. Atlas Copco's FCP range increases the charging rate of battery-driven heavy machinery, equipment and vehicles.

The modularity of this solution will allow the end user to design the best set up for every application. And, when the grid available is limited, and the electric and battery-driven loads are peaking, a ZBC is ideal to boost the grid to cover that high demand.

FCP 240		
General technical data		
Rated power input/output (PF=0.99)	kW	240
Connector type		2 x CCS 1, NACS available
Number of ouputs / cable length		2 / 23ft
Charging Current	A	300
Rated input voltage (50Hz)	VAC	480V +/- 15%
Ouput voltage range	VDC	200-1.000
Input Type		Camlocks
Ingress Portection IP		55
Peak efficiency		96%
Cooling methode for AC / DC		Forced Air cooling
Operating temperature	°F	-13° to 122°
Communication interface		Ethernet/GPS/3G/4G/WIFI
Dimensions and weight		
Dimensions (L x W x H)	in	55.4 x 51.5 x 93.5
Weight	lbs	1,874

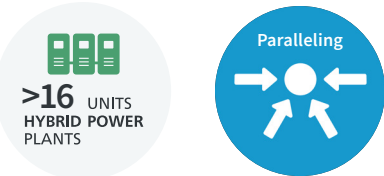


Container range Energy Storage Systems

250 kVA - 500 kVA

SCALABLE SOLUTION

- Paralleling capability with >16 units working as hybrid power plants
- Microgrid possibility with other energy sources such as grid, renewables and generators



MEET REGULATIONS

- Reduce noise pollution
- Reduce or eliminate CO₂ and NO_x emissions during operation
- Provide efficient renewable solutions

UP TO
90% LESS
FUEL AND CO₂
EMISSIONS

PLUG AND PLAY

- External connections Input/Output and control for an easier hybridization
- Alarms and emergency button access
- Fire suppression system as standard (FSS)
- FleetLink real time remote monitoring.

Easy power connections



EFFICIENT PRODUCT DESIGN

- Lithium-ion phosphate batteries (LFP)
- Built sturdy for tough work environments (IP54 design)
- Air forced cooling technology together with high efficient HVAC cooling solutions.



LiFePO₄

STURDY
IP54
design



LOWER COST OF OWNERSHIP

- Increased lifespan of hybrid fleet
- Reduced maintenance cost
- Increased productivity while meeting emission and noise regulations

>50%
INCREASED
PRODUCTIVITY



<1 HOUR FAST
RECHARGE

		ZBC 250-575	ZBC 500-250	ZBC 1000-1200
General technical data				
Nominal power	kVA/kW	250	500	1,000
Nominal energy storage capacity	kWh	575	246	1,232
Nominal voltage (60Hz)	VAC	480	480	480
Battery system voltage	VDC	672-864	672-864	672-864
Nominal current discharge	A	300	600	1,202
Operating temperature	°F	-4 to 122	-4 to 122	-4 to 122
Battery				
Quantity	units	30	20	80
Battery type		LiFePO ₄	LiFePO ₄	LiFePO ₄
Nominal voltage	VDC	76.8	76.8	76.8
Rated capacity (@25°C)	Ah	250	160	200
C-rate discharge		0.5	2	1
Recommended Depth of discharge (DoD%)	%	90	90	90
End of life (EOL%)	%	70	70	70
Expected cycle life (@DoD,EOL,25°C)	Cycles	6,000	6,000	6,000
Battery callibration (recharge up to 100%)		Once per 3 month	Once per 3 month	Once per 3 month
Inverter				
Quantity (modules)	units	4	8	16
Total nominal power	kW / kVA	250/ 250	500 / 500	1,000
Maximum peak power (for seconds)	kVA	275	550	1,100
Input DC voltage range	Vdc	600-900	600-900	600-900
Built in transformer		Yes	No	No
Performance				
Discharge autonomy 100% / 75% rated power	h	2 / 2.6	0.5 / 0.7	1 / 1.3
Discharge autonomy 50% / 25% rated power	h	4 / 8	0.9 / 1.8	2 / 4
Recharging time (@DoD%)	h	2	0.4	0.9
Hybrid recommendation (generator size)	kVA	200-1,000	200-1,000	500-2,000
Power factor acceptance		-1 ... 1	-1 ... 1	-1 ... 1
Heating / Cooling system		HVAC	HVAC	HVAC
Fire extinguisher system included		Yes	Yes	Yes
Derating temperature	°F	from 104	from 104	from 104
On-grid and off-grid applications		Yes	Yes	Yes
UL/CSA certified		Yes	Yes	Yes
Continuous power mode	kW	250	300	800
Dimensions and weight				
Dimensions (L x W x H)	ft	9.81 x 8 x 9.5	9.81 x 8 x 9.5	20 x 8 x 10
Weight (with trailer)	lb	24,250 (34,151)	23,152 (33,048)	55,125 (68,125)
Protection degree IP		54	54	54
Housing		Container 10 ft high cube		Container 20 ft high cube

Container range Energy Storage Systems

ZBC 1000 kVA

1000 kW power output and Energy capacity
of 1200 kWh packed into a HC 20ft container

EASY REMOTE MONITORING

- ECO Controller™ energy management system
- FleetLink intelligent telematics



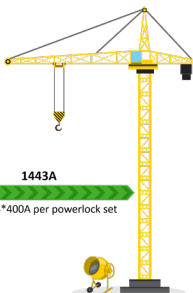
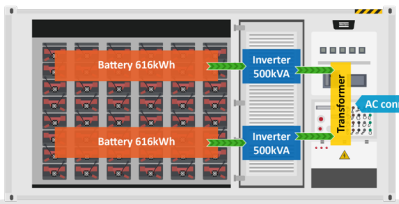
PLUG AND PLAY

- Quick to install and use
- Reduced manpower
- Portable and easy to connect



PERFORMANCE

- Microgrid capabilities
- Scalable with up to 8 units, delivering up to 8 MW of power.
- Twin energy: 2 subsystems working synchronized
- Providing redundancy in critical applications
- Reducing the cycles and battery aging



REDUCED OPERATIONAL COSTS

- Reduced fuel consumption and CO₂ emissions
- Reduced fuel management servicing and maintenance costs
- One energy storage system replaces multiple generators in a power plant
- Thermal management and safe operations



Perfect Pairing Hybrid Solutions

Current Generator		Perfect Pairing Hybrid System			Application Voltage	Average Load	Fuel Consumption Savings	Service Interval for Hybrid up to
Power Range	kVA	Generator	ESS	Max Power				
Up to 36kW	20 - 45	QAS 45	ZBP 30-75	Up to 60kW	208V 3PH			 or
Up to 25kW	20 - 45	QAS 45	ZBP 40-75	Up to 50kW	240/120V 1PH			
Up to 52kW	70	QAS 70	ZBP 30-75	Up to 70kW	208V 3PH			
Up to 35kW	70	QAS 70	ZBP 40-75	Up to 60kW	240/120V 1PH			
120 to 200kW	250	QAS 200 / QAS 235 / QAS 250	ZBC 250-575	Up to 410kW - 450kW	480V 3PH			 or
200 to 264kW	330	QAS 200 / QAS 235 / QAS 250 / QAS 330	ZBC 250-575	Up to 500kW				
264 to 328kW	410	QAS 200 / QAS 235 / QAS 250 / QAS 330	ZBC 250-575	Up to 500kW				
		QAS 175	ZBC 500-250	Up to 640kW				
328 to 560kW	700	QAS 410 /QAS 700	ZBC 250-575	Up to 575 kW - 810kW				 or
		QAS 235 / QAS 250	ZBC 500-250	Up to 700 kW				

Examples:

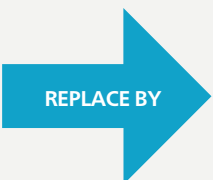
Replacement of 70kVA by QAS 70 + ZBP 30-75



Series Mode with Pass Through



Replacement of 700kVA by QAS 410 + ZBC 250-575



Scalable Parallel Mode



Mobile range Energy Storage Systems

ZBP 30 kVA - 40 kVA



THE ERA OF CONNECTIVITY

- ECO controller™, dedicated management system - the brain of the solution
- Remote monitoring system
- Master system for: Technical diagnosis and fuel saving calculations



LITHIUM-ION TECHNOLOGY

- Perfect match for short cycles (charge and discharge) performance
- Large usable energy range compared to other technologies
- Low total cost of ownership



HIGH CAPACITY
LITHIUM ION
BATTERY



FAST
HYBRID SET UP
1 MINUTE

MODULAR AND MOBILE

- Water and dust isolation IP55
- Galvanized skid
- Integrated lifting structure with single elevation point
- Dedicated maintenance doors
- Ratchet Straps guides

PLUG AND PLAY

- Wide connection panel for multiple socket combinations
- Plug and play sockets with any genset and load
- Passthrough limitation 200A

		ZBP 30-60	ZBP 30-75	ZBP 40-60	ZBP 40-75
General Technical Data					
Rated power	kW	24	24	32	32
Rated energy storage capacity	kWh	58	77	58	77
Rated voltage (60Hz)	VAC	208 / 120	208 / 120	240 / 120	240 / 120
DC total battery Voltage	VDC	48	48	48	48
Rated current discharge	A	83	83	167	167
Operating temperature (1)	°F	-4 to 122	-4 to 122	-4 to 122	-4 to 122
Battery					
Quantity	units	12	16	12	16
Battery type (2)		LiFePO4	LiFePO4	LiFePO4	LiFePO4
Rated voltage	VDC	48	48	48	48
Total DC Voltage	VDC	48	48	48	48
Rated capacity (@77°F / 25°C)	Ah	100	100	100	100
C-rate discharge		1C	1C	1C	1C
Recommended Depth of discharge (DoD%)	%	95	95	95	95
End of life (EOL%)	%	70	70	70	70
Expected cycle life (@DoD,EOL,77°F / 25°C) (3)	Cycles	6,000	6,000	6,000	6,000
Battery balancing requirement (recharge up to 100%)		Once per month			
Inverter					
Quantity	units	6	6	4	6
Maximum apparent power	kW	24	24	32	32
Maximum passthrough current	A	200	200	200	200
Built in transformer		Yes	Yes	Yes	Yes
Performance					
Discharge autonomy 100% / 75% rated power	h	1.9 / 2.6	2.6 / 3.4	1.5 / 1.9	1.9 / 2.6
Discharge autonomy 50% / 25% rated power	h	3.8 / 7.7	5.1 / 10.3	2.9 / 5.8	3.9 / 7.8
Recharging time	h	4.3	2.6	3.5	1.8
Hybrid recommendation (generator size)	kVA	40-75	40-75	40-75	40-75
Power factor acceptance		-1 ... 1	-1 ... 1	-1 ... 1	-1 ... 1
Heating / Cooling system		Heaters / Air cooled			
Maximum auxiliary consumption (4)	kW	4.8	4.8	4.8	4.8
Total energy through output up to (3)	MWh	200	250	200	250
Dimensions and Weight					
Dimensions (L x W x H)	ft	4.76' x 4' x 6.12'			
Weight (with trailer)	lb	3,058 (3,750)	3,279 (4,080)	3,175 (3,816)	3,572 (4,235)
Protection degree IP		IP 55	IP 55	IP 55	IP 55
Housing		Galvanized Metal canopy			

(1) Cold weather option included (2) Lithium iron phosphate (3) Under specific conditions (check with technical support) (4) 4 kW of full heating or 0.8 kW fans (5) Paralleling capabilities available (check with technical support)

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Mobile range Energy Storage Systems

ZBP 120 kVA



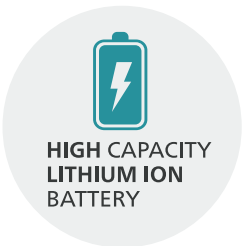
THE ERA OF CONNECTIVITY

- ECO controller™, dedicated management system - the brain of the solution
- Remote monitoring system with 2-way communication
- Master system for:
Technical diagnosis and fuel saving calculations



LITHIUM-ION TECHNOLOGY

- Perfect match for short cycles (charge and discharge) performance
- Large usable energy range compared to other technologies
- Low total cost of ownership



MODULAR AND MOBILE

- Water and dust isolation IP55
- Galvanized skid
- Integrated lifting structure with single elevation point
- Dedicated maintenance doors
- Ratchet Straps guides

PLUG AND PLAY

- Switch between 480V and 208V within seconds
- Use passthrough mode for easy setup, or parallel mode for scalability and intelligence
- Up to 45 kW of DC solar charging capability
- Wide connection panel for multiple socket combinations
- Plug and play sockets with any genset and load

ZBP 120-120		
General Technical Data		
Rated power	kVA	120
Rated energy storage capacity	kWh	122.8
Rated voltage (60Hz)	VAC	480/277
		208/120
		240/120
DC total battery Voltage	VDC	614
Rated current discharge	A	144
Operating temperature (1)	°F	-4 to 122
Battery		
Quantity	units	8
Battery type (2)		LiFePO4
Rated voltage	VDC	76.8
Total DC Voltage	VDC	76.8
Rated capacity (@77°F / 25°C)	Ah	200
C-rate discharge		1C
Recommended Depth of discharge (DoD%)	%	95
End of life (EOL%)	%	70
Expected cycle life (@DoD,EOL,77°F / 25°C) (3)	Cycles	6,000
Battery balancing requirement (recharge up to 100%)		Once per month
Inverter		
Quantity	units	4
Maximum apparent power	kVA	120
Maximum passthrough current	A	400
Built in transformer		Yes
Performance		
Discharge autonomy 100% / 75% rated power	h	0.9 / 1.5
Discharge autonomy 50% / 25% rated power	h	2/4
Recharging time	h	2.9
Hybrid recommendation (generator size)	kVA	100-300
Power factor acceptance		0.1 ... 1
Heating / Cooling system		Heaters / Air cooled
Maximum auxiliary consumption (4)	kW	8.2
Total energy through output up to (3)	MWh	400
Dimensions and Weight		
Dimensions (L x W x H)	ft	7.4 x 4.5 x 7.4
Weight (with trailer)	lb	7,320 (7,838)
Protection degree IP		IP 55
Housing		Galvanized Metal canopy

(1) Cold weather option included (2) Lithium iron phosphate (3) Under specific conditions (check with technical support) (4) 4 kW of full heating or 0.8 kW fans (5) Paralleling capabilities available (check with technical support)

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Hybrid Mobile Generators

60-75 kVA



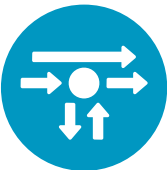
THE ERA OF CONNECTIVITY

- ECO controller™, dedicated management system - the brain of the solution
- Remote monitoring system with 2-way communication



LITHIUM-ION TECHNOLOGY

- Perfect match for short cycles (charge and discharge) performance
- Large usable energy range compared to other technologies
- Low total cost of ownership



PLUG AND PLAY

- Hybrid power ready solution.
- Wide connection panel for multiple socket & protection combinations
- Quick Setup and easy control with centralized control panel

VERSATILE OPERATIONS

- Passthrough: up to 200A of electrical current to flow directly from input.
- Series Mode with another ZBP for added "Low noise".
- Parking Mode 120V (Engine Heater, Battery Heater & slow battery recharge).
- Solar Power input up to 8kW. Compliant with solar panels up 150-250V (option).

		EPH 60-60	EPH 60-75	EPH 70-60	EPH 70-75	EPH 75-60	EPH 75-75
Hybrid generator	Units						
Rated frequency	Hz	60	60	60	60	60	60
Rated voltage	VAC	208 / 120	208 / 120	240 / 120	240 / 120	208 / 120	208 / 120
Maximum hybrid power 77°F	kVA/kW	60 / 60	60 / 60	60 / 60	60 / 60	75 / 75	75 / 75
ESS Rated power 77°F	kVA/kW	24 / 24	24 / 24	32 / 32	32 / 32	24 / 24	24 / 24
Rated energy storage capacity	kWh	57.6	76.8	57.6	76.8	76.8	76.8
Battery rated voltage	VDC	48	48	48	48	48	48
Max current output	A	166	166	250	250	208	208
Recharge time 100% rated power	h	1.8	3.2	2.1	2.7	3.2	3.2
Depth of discharge (DoD%)	%	90	90	90	90	90	90
Battery type		Lithium Iron phosphate LiFePO4					
Operating temperature	°F	-4° to 122°	-4° to 122°	-4° to 122°	-4° to 122°	-4° to 122°	-4° to 122°
Prime power diesel (PRP)	kVA/kW	36 / 36	36 / 36	39 / 39	39 / 39	51 / 51	51 / 51
Fuel Tank Capacity: daily	gal	75	75	110	110	110	110
Fuel consumption (average)	gal/kwh	0.07	0.07	0.07	0.07	0.07	0.07
Weight	lbs	8,200	8,500	9,700	9,900	9,700	9,900
Dimensions (L x W x H)	in	230 x 88 x 140	230 x 88 x 96	230 x 88 x 96	230 x 88 x 96	230 x 88 x 96	230 x 88 x 96

What are hybrid generators?

The Atlas Copco EPH's are modular hybrid generators perfect for increase fleet utilization as well as reduce fuel consumption and CO₂ emissions. Both, state of the art, QAS Tier 4 Final and ZBP ranges are integrated into a single trailer for easy transport and simple ease of use, one click solution.

Based in lithium-ion batteries and Stage V technology, EPH are designed to supply power on a vast variety of hybrid applications, such as rental, construction, events and telecom. Giving flexibility to the final product with a list of options such as solar panel connection to increase its sustainability or cold weather kit for the most critical environments.

These hybrid generators feature an innovative design meeting the strictest environmental regulations and helping end-users to optimize their operational performance and costs. Thanks to their high resilience in fast and easy connection, these models are unrivaled when it comes to flexibility. The EPH range is "Plug-and-Play" (multiple sockets and camlocks), features easy fast connections for fuel (EFT connection), Fleetlink Telemetry.



Reasons to use hybrid generators?

Savings obtained using a standard construction-crane power profile.

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UL1741, UL9540, NEMA250) Road and sea transport ADR class 9, UN 3536, CE, NEN3140, NEN3840, ISO9001, ISO14001, Low Voltage Directive 2014/35/EU, EMC directive 2014/30/EU (for further Information check with Atlas Copco technical support)



The lightest and most portable of our Energy Storage Systems

The lightest and most portable of our Energy Storage Systems, the ZBP 2000, which is built to small events, small construction sites, and is especially useful for powering small electric tools. Compact and lightweight, the unit has IK09 impact resistance classification and has an Ingress Protection rating of IP65, meaning it provides exceptional protection from dust and water in harsh environments.

With the option to parallel up to 5 units, the solution can be scaled up to 10kWh of modular energy storage, enhancing performance and reducing total cost of ownership. The ZBP 2000 also comes with two small foldable solar panels that could be used to recharge in great weather conditions or to maintain a proper battery level during less efficient production days.

MEET REGULATIONS

- Reduced noise and no emissions working standalone and with renewable energy sources
- ANSI/CAN/UL 2743



PORTABLE SOLUTION

- Light and compact
- Less than 3.5 ft³ / 0.1 m³ volume
- Handle to pull
- IK09 certified: impact test resistance
- Socket configuration: 2 x NEMA 5-15R (PAIR); USB



With suitcase handle for EASE OF TRANSPORT



Up to 5 UNITS in series for EXTRA STORAGE



EXCELLENT PERFORMANCE

- Series capabilities up to 5 units
- IP65 classified: water and dust isolation
- Fire extinguishing system included
- Heater for cold temperatures



THE ERA OF CONNECTIVITY

- WIFI and APP connection
- Defined alarms
- System status capacity

		ZBP 2000
General Technical Data		
Rated power	kVA	2
Rated energy storage capacity	kWh	2.16
Rated voltage (60Hz)	VAC	120
DC total battery Voltage	VDC	48
Rated current discharge	A	20
Operating temperature (1)	°F	14 to 113
Battery		
Quantity	units	1
Battery type (2)		LiFePO4
Rated voltage	VDC	48
Total DC Voltage	VDC	48
Rated capacity (@77°F / 25°C)	Ah	45
C-rate discharge		1C
Recommended Depth of discharge (DoD%)	%	90
End of life (EOL%)	%	80
Expected cycle life (@DoD,EOL,77°F / 25°C) (3)	Cycles	2,000
Battery balancing requirement (recharge up to 100%)		Once per month
Inverter		
Quantity	units	1
Maximum apparent power (3)	kVA	3
Maximum passthrough current	A	18
Built in transformer		No
Performance		
Discharge autonomy 100% / 75% rated power	h	1 / 1.5
Discharge autonomy 50% / 25% rated power	h	2 / 4
Recharging time	h	3
Hybrid recommendation (generator size)	kVA	3.5
Power factor acceptance		-1 ... 1
Heating / Cooling system		Heater / Air cooled
Fire extinguisher system included		Yes
Maximum auxiliary consumption	kW	0.03
Dimensions and Weight		
Dimensions (L x W x H)	ft	1.87' x 1.2' x 1.56'
Weight	lb	84
Protection degree IP		IP 55
Housing		Plastic Canopy

(1) Cold weather option included (2) Lithium iron phosphate (3) Under specific conditions (check with technical support) (5) Paralleling capabilities available (check with technical support)

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Mobile Solar Containers

ZSC 100-400, ZSP 8-40

LOW OPERATIONAL COSTS

- Virtually no maintenance
- Renewable energy from the sun
- Meets noise and emission norms
- ZSC 100-400 can save up to 108 tons of CO₂ per year as compared to traditional diesel gensets



EFFICIENT DESIGN

- East-West installation
- Compact and mobile

PLUG AND PLAY

- Easy installation and commissioning
- Easy and automatic operations

VERSATILE OPERATIONS

- Renewable energy solutions for temporary power requirements
- Solar power generation to meet needs of temporary energy providers or mobile power projects

SMART LOAD MANAGEMENT

- Paralleling capability – scalable solution
- Microgrid possibility with other energy sources



Mobile solar containers are designed to provide reliable and renewable energy solutions, especially in remote or off-grid locations.

ZSC containers are highly portable, allowing for easy transportation and deployment, making them ideal for temporary setups or locations where traditional power infrastructure is not available.

By harnessing solar energy, they reduce reliance on fossil fuels and minimize carbon emissions, to meet regulatory norms. Once installed, the ZSC containers provide free energy from the sun, leading to significant savings on energy costs over time. The minimal maintenance of the

ZSC, reduces operational expenses.

The ZSC containers can be used in versatile applications like construction sites, disaster relief operations, remote research stations, and more. Their ability to provide a stable and reliable power source in diverse environments makes them a valuable asset.

These containers are also scalable. Depending on the energy needs, multiple units can be deployed to increase power capacity. This flexibility allows for tailored energy solutions that can grow with project requirements.

		ZSP 8-40	ZSC 100-400
General technical data			
Solar capacity	kWp	8.3	100
Energy average generation per day	kWh/day	40	400
Rated output current (480V)	A	n/a	120
(Un)folding time	min	10	120
Voltage output AC/ DC	V	199 (DC)	480 (AC)
Frequency output	Hz	n/a	60
Orientation		Any azimuth (east to west ideally)	
Module tilt angle		15°	15°
Slope limit		No need for leveling	
Operating temperature	°F	-4 to 140	
Communication interface		CAN-PMS / Modbus / RS485 / webconnect	
Area required (complete unfolded+workspace)	sqft	570	1,199
Area required (split unfolded+workspace)	m2 / sqft	n/a	986
Dimensions and weight			
Weight	Lbs	2,020	26,455
Unfolded Dimensions (L x W x H)	ft	72 x 7.8 x 5	335 x 20 x 3.2
Folded Dimensions (L x W x H) ISO 20ft	ft	4 x 7.8 x 5	986

Temporary power solutions:



Product Portfolio

ENERGY STORAGE SYSTEMS

EXTRA SMALL
2-10 kVA



SMALL
30-120 kVA



MEDIUM
250-500 kVA



LARGE
1,000 kVA



GENERATORS

PORTABLE
2-8 kVA



MOBILE
25-1500 kVA



MOBILE HYBRID
30-75 kVA



Solar and portable Charger

SOLAR ARRAYS



PORTABLE CHARGER



LIGHT TOWERS

ELECTRIC



SOLAR




DIESEL



ONLINE SOLUTIONS


FLEETLINK

An intelligent telematics system that helps optimize fleet usage and reduce maintenance, ultimately saving time and cutting operating costs.



LIGHT THE POWER: YOUR SIZING TOOL

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



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