ZBP150-150 | 400/230 V | 50HZ

Technical specifications

ZBP150-150

Voltage: 400/230 V
Frequency: 50 Hz

ZBP150-150 for reference

General description

Modular energy storage system designed to meet the requirements of applications such as rental, events and telecom. Ideal for any metropolitan job or event. Based in lithium ion batteries, this portable product is ready to supply power, working in island mode or a hybrid solution together with a diesel generator. 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. .

TECHNICAL INFORMATION

Rated power	kVA	150
Rated energy storage capacity	kWh	153,6
Net energy storage capacity*	kWh	138,2
Rated voltage (50Hz)	VAC	400/230
Battery rated voltage	VDC	384
Rated current discharge (AC)	A	217
Recharge time 100% rated power	h	1,5
Depth of discharge (DoD%)	%	90%
End of Life (EoL%)	SOH %	70%
Battery type		Lithium Ion phosphate LiFePO4
Operating temperature**	°C	-20 to 50
Dimensions (L x W x H)	mm	2260 x 1300 x 2265
Weight	kg	3120
Sound pressure level (10 meter)	dB(A)	<56

The standard reference conditions are: 25 °C, 100 kPa and 30% relative humidity. For nominal values efficiencies, deratings and DoD are not considered and tested parameter related to PF=1.

*Due to use this may decrease

Atlas Copco will keep the rights to change any data when necessary due to any reason.

CE, Low Voltage Directive 2014/35/EU, EMC directive 2014/30/EU, EN 61000, EN 62109, EN 62477, EN 62619, UL9540, UN 3536, ISO9001, ISO14001,

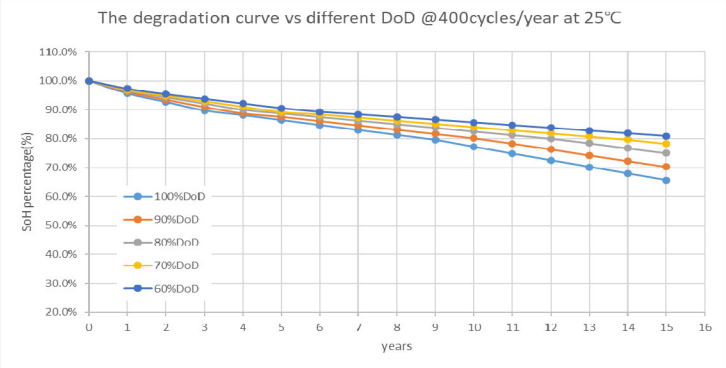
Batteries

Lithium-iron-phosphate (LiFePO4 or LFP) is the safest of its family. Also does not need to be fully charged to perform correctly. Service life even slightly improves in case of partial charge instead of a full charge. This is a major advantage, in addition, its wide operating temperature range, excellent cycling performance, low internal resistance and high efficiency.

LFP is therefore the chemistry of choice for very demanding applications

Quantity	10	**C-rate discharge**	1 C
Rated voltage (VDC)	76,8	**Weight (kg)**	133,5
Rated capacity* (Ah)	200	**Expected cycle life (@90 DoD, 70% EOL,25°C)**	6000
Rated capacity* (Wh)	153600	**Standards**	IEC62619, UN38.3, UL1973, UL95040, UL9540A

**@25°C*



Terms:

SOC%: State of Charge, measures the remaining energy content in a battery

SOH%: State of Health, ratio of the recharging capacity, compared to a new battery

DOD%: Depth of discharge, defines the energy consumed in the battery

Cycle: Complete charge and discharge of its usuable energy stored (DoD%)

EoL%: End of life, SOH is at this value

General description

Modular energy storage system

Power electronics that combines inverter and charger. It is needed to transform the energy supply from batteries (DC) to the loads (AC) with or without additional sources as diesel generators or grid.

Quantity	5	**Peak efficiency %**	97%
Rated active power (kW)	30	**Power factor**	Listed: 0.8-1 (leading/lagging) Actual: 0.1-1 (leading/lagging)

Nominal values for standard conditions and performance

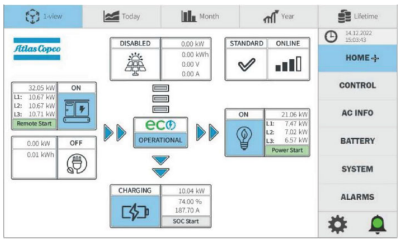
Controller and performance

ECO Energy controller optimizer, provides intuitive control and monitoring for all batteries and power electronics integrated in the battery pack. A highly customizable start/stop system. Use state of charge, voltage, load and other parameters. Define a special set of rules for quiet times, and optionally a monthly test run.

Discharge autonomy 100% / 75% rate power (h)	0.9 / 1.5	**Generator size recommended**	100-300 kVA
Discharge autonomy 50% / 25% rated power (h)	2 / 4	**Derating Temperature**	> 40 °C
Maximum auxiliary consumption (kW)	1,08	**Heating & Cooling**	Heaters* / Air cooled
Maximum passthrough current (A)	400	**Monitoring & GPS**	Yes

** Option*

Nominal values for standard conditions and performance



ENERGY CONTROLLER