

# Technical datasheet

## ZBP 45-60 50Hz 400V

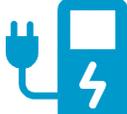
Atlas Copco

### General Description

ZBP, the Atlas Copco canopy, modular energy storage system, based in lithium ion technology. With multiple performance possibilities and designed to meet requirements for a wide range of applications as:



Construction



Recharging



Events



### Main Benefits



### Features and Options

Homologated trailer  
Cold weather package  
MPPT Charger 5.8kW / 11.5kW  
RCD type B



General Data			Performance		
Nominal power	kVA/kW	45/36	Max Passthrough current	A	100
Nominal energy storage capacity	kWh	58	Maximum peak power/time	kW/min	75 / 5s
Net energy storage capacity*	kWh	54,2	Continuous mode power/time	kW/min	36 / 30 min
Nominal voltage (Output)	VAC	400	Generator size recommended	kVA	45 - 120
Battery system voltage	VDC	48	Balance batteries		automatic / 6 months
Rated current discharge	A	52	Heating and cooling system		optional / aircooled
Recharge time @ nominal power	h	2,185483871	Cycle duration		
Depth of discharge (DoD%)	%	0,8	Discharge h	Power%	Recharge h
Total energy through output up to	MWh	194,8	1,3	100%	2,2
Expected cycle life (@DoD,EOL,25°C)		6000	1,8	75%	2,9
Protection degree		IP 55	2,7	50%	4,4
Operating temperature**	°C	-10°C - +50°C	5,3	25%	8,7
Dimensions (L x W x H)	mm	1451 x 1230 x 1865	Derating		
Weight	kg	1511	Minimum altitude w/o derating	m	2000
Sound level (LWA / LpA 7 meter)	dB(A)	<80	Min temperature w/o derating	°C	25
Battery			ECOcontroller		
Quantity		12	Max. Auxiliary Consumption	kW	5,4
Battery type		LiFePo4	Communication ports		Ethernet
Nominal voltage	VDC	48	Min/Max operating temperature	°C	-18°C - +50°C
Rated capacity (@25°C)	Ah	100	Screen size		7 inch
C-rate discharge		1	Serial Mode		standard
End of Life (EoL%)	%	70	ec CONTROLLER		
Weight (unit/total)	kg	39 / 468			
Inverter			Features and Options		
Quantity		3	HVAC system kW	Standard	not available
Nominal power Inverter	kVA/kW	15 / 12	Trailer option (weight)	Option	on request
Peak efficiency	%	0,96	PV power input	Option	5,8kW / 11,5kW
Input DC voltage range	VDC	38 - 66	PV type of connector and current	Option	MC4 / 65V- 450V / 20A
Build in transformer		no	Powerlocks input/output current	Option	400A / 400A
Bi-directional		no	FSS (type of component)	Standard	not available
Power factor		-0,8...0,8	Fleetlink / 2-Way Comm	Standard	yes

"Nominal values are considered under standard reference environmental conditions of: 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 as steady state operation conditions (and not continuous power operation), following IEC62933 definitions. \*\*To avoid derating, options for Cold weather (heaters) might be needed. Atlas Copco will keep the rights to change any data when necessary due to any reason."

EN-IEC 61000, EN-IEC 60335, EN-IEC 60335, EN-IEC 62109, EN 55014, UL1741, IEEE1547, UL1741, UL9540, NEMA250, ADR class 9, UN 3536, CE, NEN3140, NEN3840, ISO9001, ISO14001, Low Voltage Directive 2014/35/EU, EMC directive 2014/30/EU Battery specific: IEC62619, UN38.3, UL1973,UL95040, UL9540A