

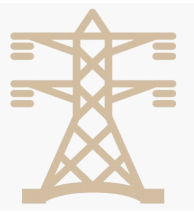
Technical datasheet

ZBC 1000-1200 60Hz 480V

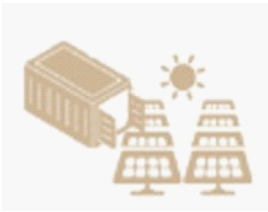


General Description

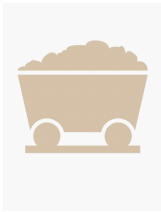
ZBC, Atlas Copco's latest technology, energy storage technology built into a 20 ft High Cube, offers solutions in large-scale projects such as events, mining and, many other wide range areas.



Grid jobs



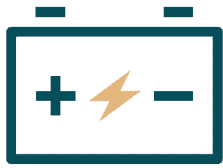
Renewables



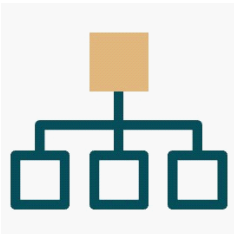
Mining



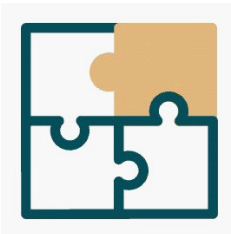
Main Benefits



Lithium



Modular



Versatility

Features and Options

- Fleetlink remote monitoring is standard
- ***CPM 80kW External energy supply input from the mains
- Camlocks and other connections as options
- Fire extinguisher system included



General Data			Performance		
Nominal power*	kVA/kW	1000/1000	Max Passthrough current	A	NA
Nominal energy storage capacity	kWh	1232	Maximum peak power/time	kW/min	1100/10
Net energy storage capacity	kWh	1105	Continuous mode power	kW	800
Nominal voltage (Output)	VAC	480 (-10% +10%)	Generator size recommended	kVA	500-2000
Battery system voltage	VDC	672-864	Battery calibration		3 months
Nominal current discharge	A	1202	Heating and cooling system		HVAC
Recharge time @ nominal power, 10-90%, without callibration	h	aprox 0.9h	Cycle duration		
Depth of discharge (DoD%)	%	90	Discharge h	Power%	Recharge h
Total energy through output up to	MWh	5200.0	1	100%	0.8
Expected cycle life (@DoD,EOL,77°F)		6000	1.3	75%	1.1
Protection degree		IP 54	2	50%	1.6
Operating temperature**	°F	-4 to 122	4	25%	3.2
Dimensions (L x W x H)	feet	020 x 008 x 010	Derating		
Weight (No Trailer)	lbs	55125	Minimum altitude w/o derating	feet	6562
Sound level (LwA / LpA 23 ft)	dB(A)	<65	Min temperature w/o derating	°F	72
Battery			ECOcontroller		
Quantity		80	Max. Auxiliary Consumption	kW	35
Battery type		LiFePo4 (LFP)	Communication ports		Ethernet/USB
Nominal voltage	VDC	76.8	Min/Max operating temperature	°F	-4 to 122
Rated capacity (@nominal conditions)	Ah	200	Screen size		10.1"
C-rate discharge		1C	Paralleling standard		
End of Life (EoL%)	%	70			
Battery weight	lbs	295			
Inverter			Features and Options		
Quantity		2	HVAC system kW	Standard	24.6kWCooling/19.8kW Heating
Nominal power Inverter	kVA/kW	1000/1000	Trailer option (weight)	Options	US Only
Peak efficiency	%	0.97	Fleetlink / 2-Way Comm	Standard	Yes
Input DC voltage range	VDC	600-900	***CPM isolated input	Options	TBD
Build in transformer		No	****Camlocks	Standard	400A, 4 rows
Bi-directional		Yes	FSS (type of component)	Standard	NOVEC 1230
Power factor		-1 +1	External water coupling	Standard	Yes

Remarks
*Nominal values are considered under standard reference environmental conditions of: 25 °C (77°F), 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 continous 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.
*** CPM is our Continious Power Mode where you can directly charge the batteries, an isolated input up to 80kW power (check specific value) for external power source such as grid.
****With more socket combinations Input and output, check with Atlas Copco
Running at Nominal power is recommended just during 1 cycle and with 1 hour rest between discharge and charge, just like the duty cycle is defined by IEC62933, for different application or uses, power output can be affected due derating, temperature or even battery life aging.

Machine standards
LVD 2014/35/EU; EN IEC 62311: 2020; EN 62311: 2008; EN IEC 61000-6-2:2019; EN IEC 61000-6-4:2019; EN 301 489-1 V2.2.3; EN 301 489-17 V3.2.4; EN 301 489-19 V2.2.1; EN 301 489-52 V1.2.1; EN 301 511 V12.5.1; EN 301 908-1 V15.2.1; EN 301 908-2 V13.1.1; EN 301 908-13 V13.2.1; EN 300 328 V2.2.2; EN 303 413 V1.1.1; IEC 60529-2013; UN38.3; UL9540; 47CFR Part 15 (2023); ANSI C63.4 (2014)+A1(2017); ICES-003 Issue 7: October 2020; UL 50E:2020 Ed.3+R:30Apr2024. For more information contact Atlas Copco.

Battery standards
IEC 62619; EMC 2014/30/EU; IEC 60730; UL 9540A; UL 1973; UL 1642; UN 38.3 For more information contact Atlas Copco

Inverter standards
CE: IEC 61727; IEC 62116; EN 50549; LVD 201/35/EU; EMC 2014/30/EU; UL: UL 1741; UL9540; CSA C22.2#107.1; FCC Part 15:2020-f. For more information contact Atlas Copco.