ZBC250-575 |400 V | 50HZ

Technical specifications

ZBC250-575

Voltage: 400 V
Frequency: 50HZ
** This model is switchable to 60Hz 380V*

Energy storage Container Image for illustration purposes only

General description

The 10 ft container for Energy Storage System is designed to meet the requirements for off and on grid applications. Ideal for renewable power plants. Based in lithium ion batteries, this portable product is ready to supply power in the most demanding situation, working in island mode, hybrid solution together with a diesel generator or in parallel with more ESS.
A greener solution for a more efficient performance.

TECHNICAL INFORMATION

Nominal rated power	kVA / kW	250 / 200
Nominal energy storage capacity	kWh	576
Net energy stored*	kWh	520
Rated voltage (50Hz)	VAC	400
Battery system voltage	VDC	768
Nominal rated AC current	A	360
Max AC current	A	397 (<10min)
Autonomy at rated power	h	2
Minimum Recharging time	h	2.5@100%
Life cycle(70%SOH@90%DoD@25°C)		6000
Cell chemistry		Lithium Iron phosphate LiFePO4
Operating temperature	ºC	-20 to 60
Dimensions (L x W x H)	mm	2991 x 2438 x 2896
Weight	kg	12000
Sound pressure level@1m	dB(A)	<80

The standard reference conditions are: 25 ºC, 100 kPa and 30% relative humidity. For nominal values efficiencies, deratings and DoD are not considered. PF= 0,8 and up to 1. *Net energy is tested at Rating Power indication, and this may variant in different use

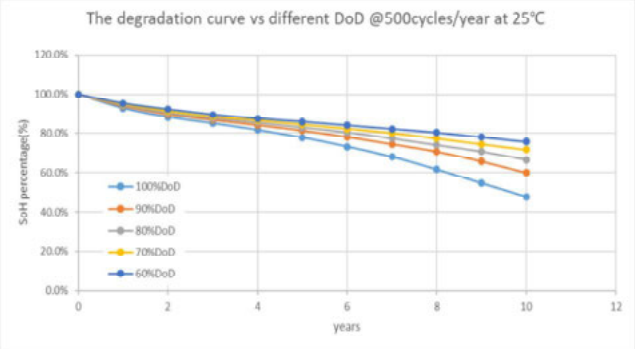
Batteries Module

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

Model Name	76.8NESP250	**C-rate**	0.5C
Dimension(W×D×H:mm)	400*884*265	**Energy density (Wh/kg)**	136
Nominal voltage (V)	76,8	**Min Charge temperature (ºC)***	0
Nominal capacity (Ah) / (kWh)	250/19.2	**Overcurrent capability**	up to 1.25 x Nominal current
DoD %	90(recommend)	**End of discharge/charge volt (V)**	67.2/86.4
Cycles	check chart	**Weight (kg)**	94

**Check Options to improve*

Nominal values for standard conditions and performance



Terms:

SOC%: State of Charge, measures the energy content in a battery
SOH%: State of Health, informs about the remaining initial capacity
DOD%: Depth of discharge, defines the energy consumed in the battery
Cycle: Complete charge and discharge of its usuable energy stored (DoD%)

Power Conversion System

Power Conversion System that combines inverter and charger. It can transform the energy supply from batteries (DC) to the loads (AC) with or without additional sources as diesel generators or grid. And Change AC to DC when Charging.

Model Name	P WS1 250K	**Efficiency**	96%
AC voltage range (V)	400±10%	**AC output current**	360
Total nominal power (kW) (PF=1)	250	**Isolation**	Built-in Transformer
Overload capability (kW)	275		

Nominal values for standard conditions and performance