zeroCO$_2$ - XL EU System

Bidirectional electricity conversion system which includes management and storage from diversified sources

Solution:

zeroCO$_2$ - XL EU System is a power management and conversion system designed for storage of large quantities of energy.
Thanks to its modularity, it is able to easily scale from a few kW to several MW of active power managed, based on customer needs.
The modules are housed inside a 19" rack which is supplied assembled, wired and factory tested for easy installation.

- From one to four PCS modules for active power management;
- Modular power from 30 kW to 120 kW for each rack;
- EMS for intelligent energy management;
- Possibility of retrofit installation for large systems;
- Three-phase AC input compatible with any type of renewable or non-renewable source system;
- Self-use, peak-shaving and energy trading working methods;
- AC side disconnect switches included;
- DC side disconnect switches included;

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Rack dimensions:

Length: 776 mm
Height: 2013 mm
Depth: 776 mm

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zeroCO₂ - XL EU System	30K	60K	90K	120K
Order Code	90110110	90110111	90110112	90110113
Dimensions [WxHxD, mm]	776 x 2013 x 776			
Weight [kg]	195	237	279	321
Sound power [dB]	<70	<71	<73	<74
PCS technology	Trasformerless			
zeroCO₂ - BESS 125K minimum number	1	2	3	4
ENERGY MANAGEMENT SYSTEM PARAMETERS				
Power supply [V - Hz]	230 - 50			
Self-consumption power [W]	150			
Standby power [W]	<5			
AC PARAMETERS				
Rated power / Maximum power [kW]	30/33	60/66	90/99	120/132
Maximum apparent power [kVA]	33	66	99	132
AC input type	5 wire (3Ph + N + PE)			
Number and maximum section of connection cables per phase [mm²]	1 x 120		2 x 120	
Voltage range [V]	400 (±10%)			
Rated electric current [A]	±43	±86	±129	±172
Maximum electric current [A]	±56	±112	±168	±224
Rated voltage and frequency [V-Hz]	400 - 50/60			
Power factor	0.8 ~ 1 (leading / lagging)			
DC component current [%]	⩽ 0.5			
Harmonic content THDi [%]	⩽ 3			
AC and DC start function	Yes			
Current switching time [ms]	⩽ 10			
Conversion efficiency [%]	⩾ 97.3			
Standby power consumption [W]	<25	<50	<75	<100
Permissible short-circuit current of short duration [kA]	6 (1")			
DC PARAMETERS				
Rated power / Maximum power [kW]	30/33	60/66	90/99	120/132
Voltage range [V]	150 - 750			
Rated electric current [A]	±72	±144	±216	±288
Maximum electric current [A]	±90	±180	±270	±360
COMMUNICATION				
Communication interfaces	RS485, LAN, WAN, CAN			
SAFETY				
IP protection rating	IP20			
Voltage resistance: input and output - PE [V DC]	3535			
Voltage resistance: input and output - CAN [V DC]	2828			
Surge: Input & Output - PE [kV]	6			
EMC Standards	BT 2014/35/CE - 2014/30/CE - FCC			
MTBF (Average Time Expected Between Failures) [h]	100000			
Compliance with connection standards	VDE 4105, EN 50549, G99, OVE R25:2020, EN 62109, EN 62477			
Warranty [years]	2			

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