



Form: SR/MAQ/29/CAB R03

Certificate nr.: 216/24/04021/CERT Rev.0

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Written by: Mauro Majolo



Page 1 of 3

Type Examination Certificate

License Holder ELPOWER S.R.L.
Via Beggiato, 23 int.1
36025 Noventa Vicentina (VI) – Italy

Production site: ELPOWER S.R.L.
Via Beggiato, 23 int.1
36025 Noventa Vicentina (VI) – Italy

Product description: Three phase inverter with storage

Trade mark: Elpower 

This is to certify that representative models of: CLEANISLAND 30
CLEANISLAND 50
CLEANISLAND 75
CLEANISLAND 100

have positively overcome the “type examination”, proving their conformity to the requirements of following listed standards

Reference standard: Network connection Rule

- VDE-AR-N 4105 “Generators connected to the low-voltage distribution network”
Technical minimum requirements for connection and parallel operation of power generation systems connected to the low-voltage network

Test requirement

- DIN VDE V 0124-100: 2020-06 Grid integration of generator plants
Low-voltage – Test requirements for generator units to be connected to and operated in parallel with low-voltage distribution networks

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Certification Body



Documento firmato da:
ZUCCATO ALESSANDRO
23.04.2024 13:01:06
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Alessandro Zuccato
(Director of KIWA Creiven)



PRD N° 294B

Signatory of EA, IAF and ILAC Mutual Recognition Agreements
Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC



Type Examination Certificate

Manufacturer				
Manufacturer		ELPOWER S.R.L. Via Beggiato, 23 int.1 36025 Noventa Vicentina (VI) – Italy		
Brand		Elpower 		
Power generation unit				
Power generation unit type		☒ Inverter (storage inverter)	☐ Asynchronous generator	☐ Synchronous generator
		☐ Stirling generator	☐ Fuel cell	☐ other: __
Model		CLEANISLAND 30 CLEANISLAND 50 CLEANISLAND 75 CLEANISLAND 100		
Model		CLEANISLAND 30	CLEANISLAND 50	CLEANISLAND 75
Assessment values	Max. active power $P_{E_{max}}$	30,0 kW	50,0 kW	75,0 kW
	Max. apparent power $S_{E_{max}}$	33,0 kVA	55,0 kVA	82,5 kVA
	Rated voltage	400 Vac (3Ph + PE)	400 Vac (3Ph + PE)	400 Vac (3Ph + PE)
Rated values	Rated current (AC) I_r	52,0 A	86,6 A	130,0 A
	Initial short-circuit AC current	52,0 A	86,6 A	130,0 A
Model		CLEANISLAND 100	--	--
Assessment values	Max. active power $P_{E_{max}}$	100,0 kW	--	--
	Max. apparent power $S_{E_{max}}$	110,0 kVA	--	--
	Rated voltage	400 Vac (3Ph + PE)	--	--
Rated values	Rated current (AC) I_r	173,0 A	--	--
	Initial short-circuit AC current	173,0 A	--	--
Power generation unit: additional data				
Model		CLEANISLAND 30	CLEANISLAND 50	CLEANISLAND 75
Firmware		172.0	172.0	172.0
Input voltage range (battery)		500-700 Vdc	500-700 Vdc	500-700 Vdc
Max Voltage (battery)		700 Vdc	700 Vdc	700 Vdc
Max input current		60 A	100 A	150 A
Note		--	--	--
Model		CLEANISLAND 100	--	--
Firmware		172.0	--	--
Input voltage range (battery)		500-700Vdc	--	--
Max Voltage (battery)		700 Vdc	--	--
Max input current		200 A	--	--
Note		--	--	--

Additional information		
Storage system data – Model	Static converter to connect with a storage system in accordance to manufacturer configurations and requirements	
Storage system data – Battery data	Manufacturer: FZsonick Model: ST523 BMS: - BMS battery: 108 - Software gateway/moxa: 2.02 - Web interface gateway/moxa: 2.02.2111 CUS of battery: 13,5 kWh	
Interface Protection relay	External installation - VDE 4105 Approved component	
The power generator unit fulfils the requirements of reference standard		
VDE-AR-N 4105: 2018-11	Generators connected to the low-voltage distribution network Technical requirements for the connection to and parallel operation with low-voltage distribution networks	
DIN VDE V 0124-100: 2020-06	Grid integration of generator plants Low-voltage – Test requirements for generator units to be connected to and operated in parallel with low-voltage distribution networks	
References of the laboratories that carried out the tests and related test reports		
Chosen method	☒ Tests performed by an accredited laboratory	☐ Tests carried out under the supervision of a certification body
Test reports	VDE-AR-N 4105: 2018-11 test report - Test report n° 428/23/03481/ER Date 2023-10-13	
Issued by	Accredited laboratory: - Kiwa Creiven S.r.l. Corso Spagna 12 – 35127 Padova – Italy	
Accreditation	Accredia, n. 0259	
Date, signature and references of the certification body		
Technical report	216/24/04020/ER – date 2024-04-19	
Certification body	Kiwa Creiven S.r.l. C.so Spagna 12, 35127 – Padova, Italy Tel. +39 049 870 4036 - info.creiven@kiwa.com www.kiwacreiven.it	
Place, Date and Signature	Padova, 2024-04-22	 Documento firmato da: ZUCCATO ALESSANDRO 23.04.2024 13:01:35 UTC Alessandro Zuccato (Director of KIWA Creiven)