



Product Certificate Number	20095-4-CER-E1
Applicant	Vacon Ltd. Runsorintie 7, 65380. Vaasa, Finland
Series	NX series
Models/	NXA XXXXX Air cooled NXA XXXXX Liquid cooled Models: See page 2
Type of generating unit	Grid converters
Technical Data	See pages 3, 4
Network connection rule	VDE-AR-N 4110, 2018-11 "Technische Regeln für den Anschluss von Kundenanlagen an das Mittelspannungsnetz und deren Betrieb (TAR Mittelspannung)" VDE-AR-N 4120, 2018-11 "Technische Regeln für den Anschluss von Kundenanlagen an das Hochspannungsnetz und deren Betrieb (TAR Hochspannung)"

Having assessed the test report number: 20095-2-TR- performed by Certification Entity for Renewable Energies, S.L. (CERE Testing Laboratory) (Accredited Laboratory N° 5314.01) based on the requirements of the EN ISO/IEC 17025:2017.

The above-mentioned generating unit complies with the requirements of the: **VDE-AR-N 4110, 2018-11** "Technische Regeln für den Anschluss von Kundenanlagen an das Mittelspannungsnetz und deren Betrieb (TAR Mittelspannung)" and **VDE-AR-N 4120, 2018-11** "Technische Regeln für den Anschluss von Kundenanlagen an das Hochspannungsnetz und deren Betrieb (TAR Hochspannung)"

This certification is according the CERE internal process PET-CERE-09 Rev 14 based on the requirements of the EN ISO/IEC 17065:2012. For this certification process the conformity assessment activities were based on:

- Testing of production samples selected by CERE.
- Audit of quality system according ISO 9001 with certificate number: DK009881-113 Version: 1 issued by a certification body accredited according EN ISO/IEC 17021.
- Inspection of the manufacturing process.

This certificate cancels and superseed the certificate number: 20095-4-CER issued on March 15, 2019.

Madrid at April 26, 2019. This certificate is valid until March 15, 2022

Miguel Martínez Lavin
Certification Manager



Models:

Grid converters			
NXA XXXXX Air cooled		NXA XXXXX Liquid cooled	
NXA01685 NXA02055 NXA02615 NXA03855 NXA04605 NXA11505 NXA13005	NXA01256 NXA01446 NXA01706 NXA02616 NXA03256 NXA09206 NXA10306	NXA01685 NXA02055 NXA02615 NXA03005 NXA03855 NXA04605 NXA05205 NXA05905 NXA06505 NXA07305 NXA08205 NXA09205 NXA10305 NXA11505 NXA13705 NXA16405 NXA20605 NXA23005	NXA01706 NXA02086 NXA02616 NXA03256 NXA03856 NXA04166 NXA04606 NXA05026 NXA05906 NXA06506 NXA07506 NXA08206 NXA09206 NXA10306 NXA11806 NXA13006 NXA15006 NXA17006
Note: The models can be used with application software: ARFIF106 and ARFIF08			



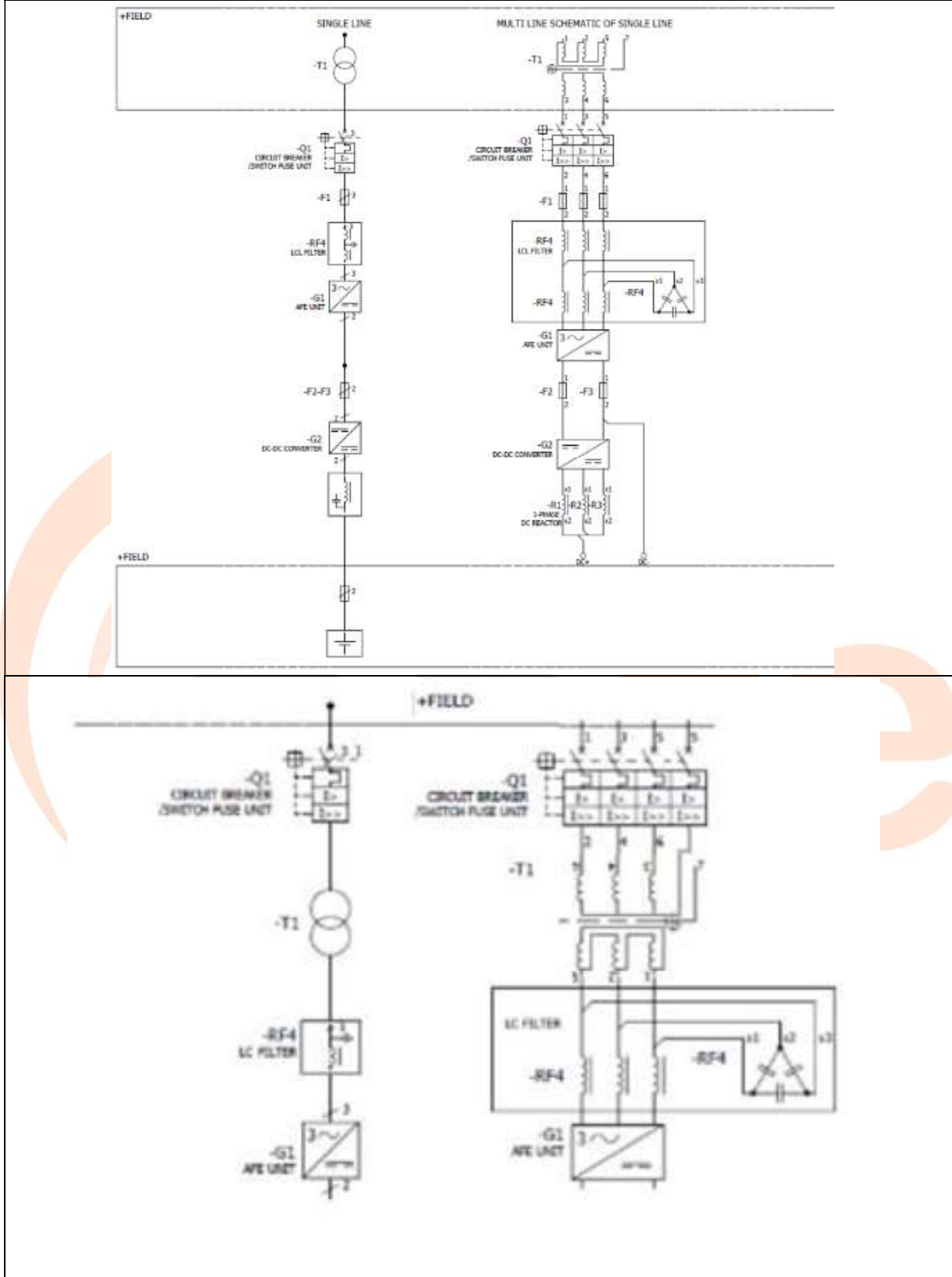
Technical data

Grid Converters – Air cooled					
Grid converter module	Freme size	Apparent current @pf 1,0	Current Rating	AC Voltage range	Nominal AC Voltage
NXA01685	FI9	170A	140A	380-500V	400V
NXA02055	FI9	205A	170A	380-500V	400V
NXA02615	FI9	261A	205A	380-500V	400V
NXA03855	FI10	385A	300A	380-500V	400V
NXA04605	FI10	460A	385A	380-500V	400V
NXA11505	FI13	1150A	1030A	380-500V	400V
NXA13005	FI13	1300A	1150A	380-500V	400V
NXA01256	FI9	125A	100A	450-690V	600V
NXA01446	FI9	144A	125A	450-690V	600V
NXA01706	FI9	170A	144A	450-690V	600V
NXA02616	FI10	261A	208A	450-690V	600V
NXA03256	FI10	325A	261A	450-690V	600V
NXA09206	FI13	920A	820A	450-690V	600V
NXA10306	FI13	1030A	920A	450-690V	600V

Grid Converters – Liquid cooled					
Grid converter module	Freme size	Apparent current @pf 1,0	Current Rating	AC Voltage range	Nominal AC Voltage
NXA01685	CH5	168A	140A	380-500V	400V
NXA02055	CH5	205A	170A	380-500V	400V
NXA02615	CH5	261A	205A	380-500V	400V
NXA03005	CH61	300A	261A	380-500V	400V
NXA03855	CH61	385A	300A	380-500V	400V
NXA04605	CH62	460A	385A	380-500V	400V
NXA05205	CH62	520A	460A	380-500V	400V
NXA05905	CH62	590A	520A	380-500V	400V
NXA06505	CH62	650A	590A	380-500V	400V

NXA07305	CH62	730A	650A	380-500V	400V
NXA08205	CH63	820A	730A	380-500V	400V
NXA09205	CH63	920A	820A	380-500V	400V
NXA10305	CH63	1030A	920A	380-500V	400V
NXA11505	CH63	1150A	1030A	380-500V	400V
NXA13705	CH64	1370A	1150A	380-500V	400V
NXA16405	CH64	1640A	1370A	380-500V	400V
NXA20605	CH64	2060A	1640A	380-500V	400V
NXA23005	CH64	2300A	2060A	380-500V	400V
NXA01706	CH61	170A	144A	450-690V	600V
NXA02086	CH61	208A	170A	450-690V	600V
NXA02616	CH61	261A	208A	450-690V	600V
NXA03256	CH62	325A	261A	450-690V	600V
NXA03856	CH62	385A	325A	450-690V	600V
NXA04166	CH62	416A	325A	450-690V	600V
NXA04606	CH62	460A	385A	450-690V	600V
NXA05026	CH62	502A	460A	450-690V	600V
NXA05906	CH63	590A	502A	450-690V	600V
NXA06506	CH63	650A	590A	450-690V	600V
NXA07506	CH63	750A	650A	450-690V	600V
NXA08206	CH64	820A	750A	450-690V	600V
NXA09206	CH64	920A	820A	450-690V	600V
NXA10306	CH64	1030A	920A	450-690V	600V
NXA11806	CH64	1180A	1030A	450-690V	600V
NXA13006	CH64	1300A	1180A	450-690V	600V
NXA15006	CH64	1500A	1300A	450-690V	600V
NXA17006	CH64	1700A	1500A	450-690V	600V

Electrical Diagram topologies:





The sample selected to test was representative of the production.
The sample was selected in:

Vacon Ltd.
Runsorintie 7
65380. Vaasa, Finland

Sample Report Number:

20095-1-TM
20095-2-TM

The inspection of manufacturing process was performed in:
On 17th of December of 2018

Vacon Ltd.
Runsorintie 7
65380. Vaasa, Finland

Inspection Report Number:

20095-IF

